



## **Forensic Biology Test No. 22-5703 Summary Report**

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Each participant received a sample pack consisting of two known bloodstains and two questioned stains which they were requested to analyze using their existing protocols. Data were returned from 386 participants and are compiled into the following tables:

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This report contains the data received from the participants in this test. Since these participants are located in many countries around the world, and it is their option how the samples are to be used (e.g., training exercise, known or blind proficiency testing, research and development of new techniques, etc.), the results compiled in the Summary Report are not intended to be an overview of the quality of work performed in the profession and cannot be interpreted as such. The Summary Comments are included for the benefit of participants to assist with maintaining or enhancing the quality of their results. These comments are not intended to reflect the general state of the art within the profession.

Participant results are reported using a randomly assigned "WebCode". This code maintains participant's anonymity, provides linking of the various report sections, and will change with every report.

## **Manufacturer's Information**

Each sample pack consisted of two known bloodstains on FTA cards (Items 1 & 2), and two questioned stains on clean, colored fabric (Item 3 & 4). Participants were requested to analyze these items using their existing protocols.

**SAMPLE PREPARATION:** The stains on Items 1, 2 and 3 were prepared using human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. The stain in Item 4 was a mixture prepared from human whole blood and semen. The semen sample was first thawed and mixed 1:1 with TAE buffer, then mixed 1:1 with the blood. Item 1 (75  $\mu$ l) was created using blood from a female donor. Item 2 (75  $\mu$ l) was created using blood from a male donor. Item 3 (50  $\mu$ l) was created by combining in a 1:1 ratio, blood from the Item 1 female donor and blood from the Item 2 male donor. Item 4 (50  $\mu$ l) was created using blood from the female donor used in Item 1 and semen from a male donor whose known standard was not provided. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on April 20, 2022 following completion of the verification stage.

**SAMPLE SET ASSEMBLY:** For each sample set, all four Items (1-4) were packaged into separate envelopes and then placed together in a pre-labeled sample pack envelope and sealed. The sealed sample pack envelopes were then packaged in pre-labeled heat seal envelopes and sealed. This process was repeated until all of the sample sets were prepared.

**VERIFICATION:** All predistribution laboratories confirmed the manufacturer's expected associations. Consistent allelic results were reported for all STR and YSTR loci.

## Manufacturer's Information, continued

### Amelogenin and STR Results

*Results compiled from predistribution laboratories and a consensus of at least 10 participants.*

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	
1	11,15	20,23	14,14	15,15	11,12	*
	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14	NM	NM	NM	NM	
2	16.3,18.3	19,19	11,11	16,17	12,12	*
	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16	2	
3	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	*
	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8,8
	14,15,17	11	18	16	2	
4-Blood	11,15	20,23	14,14	15,15	11,12	*
	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14	NM	NM	NM	NM	
4-Semen	15.3,17.3	17,24	10,10	15,17	10,11	*
	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17	2	

### YSTR Results

*Results compiled from predistribution laboratories and a consensus of at least 10 participants.*

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
2	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11	12	18	16	19	22	12	11
3	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11	12	18	16	19	22	12	11
4-Semen	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11	13	21	17	20	22	12	11

\* Results were not received by a minimum of 10 participants for the loci indicated.

NM - Non-Male profile, YSTR results not expected.

## **Summary Comments**

The 22-5703 Forensic Biology test was designed to allow participants to assess their proficiency in the identification and comparison of dried stains by means of body fluid screening and/or DNA profiling. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Item 1 was created using blood from a female donor. Item 2 was created using blood from a male donor. Item 3 was created by combining in a 1:1 ratio, blood from the Item 1 female donor and blood from the Item 2 male donor. Item 4 was created using blood from the female donor used in Item 1 and semen from a male donor whose known standard was not provided. (See Manufacturer's Information for preparation details)

Data were returned by 386 participants.

### Screening Test Results:

Screening results for body fluids (blood, semen, saliva) were returned by a total of 372 participants. However, not all of these participants returned screening results for all fluids for both questioned items.

For Item 3, all participants reported "Positive" for the presence of blood. For the presence of semen, 321 participants reported "Negative" and one reported "Inconclusive." For the presence of saliva, 91 participants reported "Negative" and two reported "Inconclusive." Additionally, all responding participants reported "Positive" for Human Origin and Y-Screening.

For Item 4, all participants reported "Positive" for the presence of blood. For the presence of semen, 340 participants reported "Positive" and one reported "Negative." For the presence of saliva, all but one responding participant reported "Negative." The remaining participant reported "Positive." Additionally, all responding participants reported "Positive" for Human Origin and Y-screening.

### DNA Analysis Results:

Of the 386 participants that returned results, 363 reported DNA results. Twelve participants stated that the samples were analyzed for database purposes only and five selected the "No Interpretations" option individually for all interpretation questions.

For the Item 3 stain, the interpretation breakdown is as follows: all participants included the victim (Item 1) and the suspect (Item 2) as possible contributors.

For the Item 4 stain, the interpretation breakdown is as follows: all participants included the victim (Item 1) and excluded the suspect (Item 2) as possible contributors.

A total of 198 participants reported the use of Probabilistic Genotyping (PG) software on either solely the questioned items or all four items. The majority of participants reporting the use of PG software stated in their additional comments that stutter peaks may be included in the DNA results. Of these participants, sixteen were missing alleles compared to the consensus/predistribution results for one or more of the questioned items. Based on the interpretations described above, these inconsistencies did not appear to affect participants' conclusions.

## Key for Screening Tests Used

Participants were asked to use, where possible, the following chart of abbreviated screening test names. This was not an all inclusive list and was not designed to determine what tests should be performed. Participants were advised that tests not on this list may be used for screening.

Test	Abbreviation
Acid Phosphatase	AP
Kastle Meyer	KM
Leucomalachite Green	LMG
Microscopic	Micro
Ortho-tolidine	O-tol
Phenolphthalein-Tetramethyl benzidine	PTMB
Prostate Specific Antigen	PSA
Quantiblot	QB
Quantifiler	QF
Tetramethyl benzidine	TMB

# Serology Screening Results

Indicate the results of any screening tests performed on the questioned stains (Items 3 & 4).

TABLE 1a

WebCode	Blood Screening Results	
	Item 3	Item 4
22TQ4E	Pos Phenolphthalein	Pos Phenolphthalein
243KYE	Pos KM, HemDirect	Pos KM, HemDirect
2D3EMC	Pos O-tol	Pos O-tol
2FD9WJ	Pos KM	Pos KM
2HHXYR	Pos O-tol, PPTH, HemDirect	Pos O-tol, PPTH, HemDirect
2L99VJ	Pos ABACard HemaTrace	Pos ABACard HemaTrace
2N6LVH	Pos KM	Pos KM
2QB3ZF	Pos KM, HemaTrace	Pos KM, HemaTrace
2QB99M	Pos LMG	Pos LMG
2R6WRH	Pos KM	Pos KM
2RNMRP	Pos LMG	Pos LMG
2XN7TZ	Pos KM	Pos KM
3BRW47	Pos KM	Pos KM
3GGG62	Pos KM	Pos KM
3JPK4J	Pos KM, HemaTrace	Pos KM, HemaTrace
3N2JL4	Pos O-tol	Pos O-tol
3Q3PKH	Pos KM	Pos KM
3RWD4D	Pos LMG, HemaTrace	Pos LMG, HemaTrace
3WCRZK	Pos KM	Pos KM
43E3RB	Pos LMG	Pos LMG
44CJVZ	Pos TMB	Pos TMB
487EJZ	Pos LMG	Pos LMG
49MC7Y	Pos KM	Pos KM
4AGZNU	Pos KM	Pos KM
4C3HQR	Pos O-tol, HemaTrace	Pos O-tol, HemaTrace
4E2J7A	Pos LMG, HemaTrace	Pos LMG, HemaTrace
4EUZLL	Pos LMG	Pos LMG
4FMRV7	Pos KM	Pos KM
4H2U3A	Pos LMG	Pos LMG
4M8RBJ	Pos KM	Pos KM
4MAK87	Pos KM	Pos KM
4MG9YG	Pos KM	Pos KM
4NCR2H	Pos KM, HemaTrace	Pos KM, HemaTrace

TABLE 1a

WebCode	Blood Screening Results	
	Item 3	Item 4
4P9CLW	Pos O-tol	Pos O-tol
4T9DTK	Pos KM, HT	Pos KM, HT
4TA2FQ	Pos KM	Pos KM
4TQC2C	Pos O-tol, HemDirect	Pos O-tol, HemDirect
4U3V3A	Pos LMG, HemaTrace	Pos LMG, HemaTrace
4VEUCA	Pos KM	Pos KM
62JTKE	Pos KM, HemDirect	Pos KM, HemDirect
66YDXU	Pos KM	Pos KM
688GWC	Pos KM, HemaTrace	Pos KM, HemaTrace
69K6JW	Pos KM, HemaTrace	Pos KM, HemaTrace
6C2F82	Pos LMG, HemaTrace	Pos LMG, HemaTrace
6DCF7F	Pos KM, HemaTrace	Pos KM, HemaTrace
6DE24G	Pos KM, HemaTrace	Pos KM, HemaTrace
6J3NYM	Pos KM	Pos KM
6M3W6H	Pos KM	Pos KM
6V9TTV	Pos KM	Pos KM
76ZETR	Pos KM	Pos KM
78HQEB	Pos KM, HemaTrace	Pos KM, HemaTrace
78LFBL	Pos KM	Pos KM
7MYR2T	Pos KM, HB	Pos KM, HB
7V99M8	Pos LMG	Pos LMG
7VNCCT	Pos KM	Pos KM
7YPLDM	Pos red-brown, O-tol, HemDirect	Pos red-brown, O-tol, HemDirect
834PGB	Pos KM, HemaTrace	Pos KM, HemaTrace
84EEX2	Pos KM	Pos KM
86EK89	Pos KM	Pos KM
8EWZAB	Pos KM, HemDirect	Pos KM, HemDirect
8HG27H	Pos LMG, Bluestar Obti	Pos LMG, Bluestar Obti
8NPD8P	Pos KM	Pos KM
8V3HQA	Pos KM	Pos KM
8WKDN3	Pos KM, Seratec HEM	Pos KM, Seratec HEM
8YHT3R	Pos KM	Pos KM
93KUWN	Pos KM	Pos KM
93ZBU2	Pos KM	Pos KM
97E6FZ	Pos KM	Pos KM

TABLE 1a

WebCode	Blood Screening Results	
	Item 3	Item 4
9AULN6	Pos Hemastix, HemaTrace	Pos Hemastix, HemaTrace
9CQWYZ	Pos KM	Pos KM
9GJ2T4	Pos KM, HemDirect	Pos KM, HemDirect
9JQFYA	Pos Phenolphthalein	Pos Phenolphthalein
9K3ZZ8	Pos KM	Pos KM
9LVNPU	Pos KM	Pos KM
9NKDN2	Pos KM	Pos KM
9PVZKU	Pos KM	Pos KM
9YYBEC	Pos TMB, FOB, Seratec PMB, Luminol	Pos TMB, FOB, Seratec PMB, Luminol
9ZA76B	Pos Hemastix	Pos Hemastix
9ZJTWQ	Pos KM	Pos KM
A3WB78	Pos KM	Pos KM
A4N6WV	Pos KM	Pos KM
A6MAMQ	Pos KM, HemaTrace	Pos KM, HemaTrace
A7TXK3	Pos LMG, HemaTrace	Pos LMG, HemaTrace
A97GY7	Pos KM, HemaTrace	Pos KM
A9G82V	Pos KM	Pos KM
AFKBZU	Pos KM, HEM	Pos KM, HEM
AKXXVK	Pos O-tol	Pos O-tol
ALRLEF	Pos LMG	Pos LMG
ANECAT	Pos PTMB	Pos PTMB
AYYUUD	Pos KM	Pos KM
AZM4Q8	Pos LMG	Pos LMG
B24JWL	Pos LMG	Pos LMG
B4H92Q	Pos KM	Pos KM
B7A8JV	Pos KM, HemaTrace	Pos KM, HemaTrace
B8AB4X	Pos KM	Pos KM
BAC8FL	Pos KM, TMB	Pos KM, TMB
BHKVEE	Pos LMG, HemaTrace	Pos LMG, HemaTrace
BJ4RTY	Pos KM, Hem	Pos KM, HEM
BMLR9F	Pos LMG	Pos LMG
BNEHHZ	Pos KM	Pos KM
BNUXGA	Pos Hemophan, FOB Bio-Line	Pos Hemophan, FOB Bio-Line
BP2CLU	Pos KM	Pos KM
BRT7PQ	Pos O-tol	Pos O-tol



TABLE 1a

WebCode	Blood Screening Results	
	Item 3	Item 4
BRTHBK	Pos LMG	Pos LMG
BUL9K7	Pos KM	Pos KM
BV7CY6	Pos KM, HemaTrace	Pos KM, HemaTrace
BVC82P	Pos KM, HemaTrace	Pos KM, HemaTrace
BVTMVT	Pos RSID (SERATEC HEM)	Pos RSID (SERATEC HEM)
BWRQLM	Pos KM, HemaTrace	Pos KM, HemaTrace
C6E2HV	Pos KM	Pos KM
CEYEF7	Pos O-tol, Seratec HemDirect	Pos O-tol, Seratec HemDirect
CGACTN	Pos KM	Pos KM
CGNR8P	Pos KM	Pos KM
CV97FP	Pos KM	Pos KM
D2VECU	Pos O-tol	Pos O-tol
D77BEH	Pos KM	Pos KM
D9TXJQ	Pos KM	Pos KM
DA8BEE	Pos KM	Pos KM
DCCYVQ	Pos TMB (Hemastix) & HemaTrace	Pos TMB (Hemastix) & HemaTrace
DGKM87	Pos KM	Pos KM
DJCJXL	Pos KM, HemaTrace	Pos KM, HemaTrace
DN4T4D	Pos KM	Pos KM
DPY9HV	Pos KM	Pos KM
DQPGHY	Pos KM; HemaTrace	Pos KM; HemaTrace
DUDV79	Pos KM, HemaTrace	Pos KM, HemaTrace
DY2M7P	Pos KM	Pos KM
DY3N29	Pos KM	Pos KM
E33YVM	Pos KM	Pos KM
E34P4Q	Pos TMB (Hemastix), HemaTrace	Pos TMB (Hemastix), HemaTrace
E3VZ86	Pos KM	Pos KM
E6PKK4	Pos KM, HemaTrace	Pos KM, HemaTrace
E9BF8W	Pos KM, Hemdirect	Pos KM, Hemdirect
ECP2VA	Pos KM	Pos KM
EKKMRG	Pos hemastix, RSID	Pos hemastix, RSID
ENGVYQ	Pos KM	Pos KM
EPD4D3	Pos KM, HemaTrace	Pos KM
ETBPZY	Pos LMG	Pos LMG
EXBPLP	Pos KM	Pos KM

TABLE 1a

WebCode	Blood Screening Results	
	Item 3	Item 4
F2F7WW	Pos LMG, HemaTrace	Pos LMG, HemaTrace
FAXC2G	Pos KM, TMB	Pos KM, TMB
FAZ46H	Pos KM, HemaTrace	Pos KM, HemaTrace
FDVN2M	Pos KM	Pos KM
FEAD6Y	Pos LMG	Pos LMG
FEVX3J	Pos KM, HemaTrace	Pos KM, HemaTrace
FFHHK9	Pos KM	Pos KM
FGAL8N	Pos O-tol	Pos O-tol, HemaTrace
FGUEXZ	Pos LMG, HemaTrace	Pos LMG, HemaTrace
FMLEHM	Pos ALS, Hemophan. Seratec Blood	Pos ALS, Hemophan. Seratec Blood
FMY4LZ	Pos O-tol	Pos O-tol
FQ86Z6	Pos KM	Pos KM
FQMLXJ	Pos KM and HemaTrace	Pos KM and HemaTrace
FT6UUX	Pos LMG	Pos LMG
FTMQEK	Pos KM	Pos KM
FVXCLY	Pos KM	Pos KM
FYFYTC	Pos KM	Pos KM
G3CU6K	Pos KM	Pos KM
G6FRAL	Pos KM	Pos KM
G8ZMPY	Pos RSID	Pos RSID
GDBMCP	Pos KM	Pos KM
GEPZ6T	Pos KM	Pos KM
GKVQJT	Pos Hemastix, HemaTrace	Pos Hemastix, HemaTrace
GM29JA	Pos KM	Pos KM
GM3W8E	Pos KM	Pos KM
GQTJBY	Pos O-tol, Seratec HemDirect	Pos O-tol, Seratec HemDirect
GQYLDZ	Pos LMG	Pos LMG
GXZNNT	Pos KM	Pos KM
GYHNXA	Pos LMG	Pos LMG
H2NYP3	Pos KM	Pos KM
H4JEMT	Pos KM	Pos KM
H8MDRJ	Pos KM, HemaTrace	Pos KM, HemaTrace
H8Y9YJ	Pos FOB,	Pos FOB
H9A22Y	Pos KM	Pos KM
H9E37K	Pos PTMB	Pos PTMB

TABLE 1a

WebCode	Blood Screening Results	
	Item 3	Item 4
H9E9ET	Pos KM, HemDirect	Pos KM, HemDirect
HG9BNQ	Pos KM	Pos KM
HJEVCQ	Pos KM	Pos KM
HPG2RU	Pos KM	Pos KM
HPZNNQ	Pos KM	Pos KM
HRQ3W2	Pos KM, HemaTrace	Pos KM, HemaTrace
HTJXJA	Pos KM, HemaTrace	Pos KM, HemaTrace
HUEGKB	Pos KM, HT	Pos KM, HT
HUTQRQ	Pos KM, HemaTrace	Pos KM, HemaTrace
HXR4DU	Pos KM	Pos KM
J7HB7K	Pos RSID Blood	Pos RSID Blood
JA4YXC	Pos LMG	Pos LMG
JCN3FH	Pos O-tol	Pos O-tol
JEXVKH	Pos KM	Pos KM
JHGVWR	Pos KM, HemaTrace	Pos KM, HemaTrace
JKJXJ8	Pos LMG	Pos LMG
JNMM8A	Pos hemdirect	Pos hemdirect
JPXHK2	Pos Hemastix	Pos Hemastix
JRL3HJ	Pos KM	Pos KM
JWFR9X	Pos KM; HemaTrace	Pos KM; HemaTrace
K27KGJ	Pos KM, HemaTrace	Pos KM, HemaTrace
K6T7MD	Pos KM, HemaTrace	Pos KM, HemaTrace
K8CA74	Pos KM	Pos KM
K8UAAT	Pos KM	Pos KM
KEUHQU	Pos LMG	Pos LMG
KFNBJR	Pos KM	Pos KM
KFQ9KF	Pos KM, HB HemDirect	Pos KM, HB HemDirect
KJAYBK	Pos KM, Hem Direct	Pos KM, Hem Direct
KMAA8J	Pos KM, HemDirect	Pos KM, HemDirect
KR47R6	Pos KM	Pos KM
KTBHGT	Pos KM	Pos KM
KURLFE	Pos KM	Pos KM
KYLH66	Pos LMG	Pos LMG
L29GW9	Pos KM	Pos KM
L4ATAZ	Pos KM, HemaTrace	Pos KM, HemaTrace

TABLE 1a

WebCode	Blood Screening Results	
	Item 3	Item 4
L9NGTW	Pos KM, HemDirect	Pos KM, HemDirect
LDFFDU	Pos KM	Pos KM
LEPH7K	Pos Hemtrace, LMG	Pos HemaTrace, LMG
LGUFBL	Pos KM	Pos KM
LJZQBV	Pos KM, HemaTrace	Pos KM, HemaTrace
LKX4XN	Pos KM, HemaTrace	Pos KM, HemaTrace
LMRJVE	Pos KM, HemaTrace	Pos KM, HemaTrace
LP88ZJ	Pos O-tol	Pos O-tol
LPRWCC	Pos KM	Pos KM
LQ7DBC	Pos KM, Hemetrace	Pos KM, Hemetrace
LU3867	Pos KM	Pos KM
LZLNZ4Y	Pos LMG, HemaTrace	Pos LMG, HemaTrace
M6H8AE	Pos O-tol, HemaTrace	Pos O-tol, HemaTrace
M6YEFW	Pos KM, HemaTrace	Pos KM, HemaTrace
M8MT47	Pos KM, HemaTrace	Pos HemaTrace
M9XMRT	Pos HEMASTIX	Pos HEMASTIX
MB438C	Pos KM	Pos KM
MBL6Z7	Pos KM, HemaTrace	Pos KM, HemaTrace
MG88YV	Pos Hemastix	Pos Hemastix
MHLP4M	Pos KM, HemaTrace	Pos KM, HemaTrace
MMFKML	Pos Hemastix, HemaTrace	Pos Hemastix, Hematrac
MP2CUH	Pos O-tol	Pos O-tol
MV87ND	Pos O-tol	Pos O-tol
N2C3CK	Pos IR Light, Luminol, Phenolphthalein, HemDirect	Pos IR Light, Luminol, Phenolphthalein
N3QLY3	Pos LMG	Pos LMG
NAE6MC	Pos KM, HB	Pos KM, HB
NCEHZ4	Pos KM; HemaTrace	Pos KM; HemaTrace
NGBYKB	Pos KM	Pos KM
NNRHUC	Pos KM	Pos KM
NVBB39	Pos KM; HemaTrace	Pos KM; HemaTrace
P2E3X7	Pos KM	Pos KM
P33P4E	Pos KM	Pos KM
P4FE9C	Pos Pheno	Pos Pheno
PA89VD	Pos KM, HemaTrace	Pos KM, HemaTrace
PBJC3A	Pos KM, Hemedirect	Pos KM, Hemedirect

TABLE 1a

WebCode	Blood Screening Results	
	Item 3	Item 4
PC8PKT	Pos KM, HemaTrace	Pos KM, HemaTrace
PFTE3K	Pos KM, Luminol	Pos KM, Luminol
PLA2MN	Pos KM, HemaTrace	Pos KM, HemaTrace
PQNRWP	Pos KM	Pos KM
PZHNBD	Pos KM	Pos KM
Q4RFKD	Pos KM, HemaTrace	Pos KM, HemaTrace
Q6MYQK	Pos KM	Pos KM
Q7HMY9	Pos KM	Pos KM
Q7KALN	Pos KM	Pos KM
Q9ALD7	Pos KM	Pos KM
QAE79T	Pos KM	Pos KM
QAHLNE	Pos LMG, HemaTrace	Pos LMG, HemaTrace
QAHUHK	Pos KM, HemDirect	Pos KM, HemDirect
QBDCJL	Pos KM, HemDirect	Pos KM, HemDirect
QFN9LA	Pos KM, HemDirect	NT
QFTPK9	Pos KM	Pos KM
QHUQMQ	Pos KM	Pos KM
QJR4AJ	Pos KM	Pos KM
QKZFPZ	Pos KM	Pos KM
QPCBJC	Pos KM	Pos KM
QR2TMH	Pos KM	Pos KM
QWVC4V	Pos KM, HemaTrace	Pos KM, HemaTrace
QYU4HL	Pos LMG, HemaTrace	Pos LMG, HemaTrace
R8MJXG	Pos Luminol, KM, HemDirect	Pos Luminol, KM
R96LRW	Pos LMG	Pos LMG
RB6QD4	Pos KM, TMB	Pos KM, TMB
RBRYV9	Pos KM, HemaTrace	Pos KM, HemaTrace
RJHVAV	Pos KM	Pos KM
RKFWKT	Pos KM	Pos KM
RNVHX9	Pos KM, TMB	Pos KM, TMB
RP7H3F	Pos KM	Pos KM
RPQ24F	Pos KM	Pos KM
RVWTCD	Pos KM	Pos KM
RWQK4Q	Pos O-tol, HemDirect	Pos O-tol, HemDirect
RWWJR9	Pos KM, HemDirect	Pos KM, HemDirect

TABLE 1a

WebCode	Blood Screening Results	
	Item 3	Item 4
RX6RY8	Pos KM, HemaTrace	Pos KM, HemaTrace
RZNVZL	Pos LMG	Pos LMG
RZRHXQ	Pos KM, HemaTrace	Pos KM, HemaTrace
T37NLC	Pos PTMB (Hemastix), Immunochromatographic test (HEXAGON OBTI)	Pos PTMB (Hemastix), Immunochromatographic test (HEXAGON OBTI)
T43YLL	Pos HemaTrace	Pos HemaTrace
T4RYW7	Pos KM, HemaTrace	Pos KM, HemaTrace
T6FJEW	Pos KM	Pos KM
T78M2B	Pos O-tol	Pos O-tol
TBNWA9	Pos KM	Pos KM
TE4H3F	Pos Hemastix, HemaTrace	Pos Hemastix, HemaTrace
TFHVX6	Pos KM, HemaTrace	Pos KM, HemaTrace
TJT4P9	Pos KM	Pos KM
TL7PLP	Pos KM, HemDirect	Pos KM, HemDirect
TMHEVU	Pos KM	Pos KM
TMJ48D	Pos KM	Pos KM
TMTDV6	Pos ABACard HemaTrace	Pos ABACard HemaTrace
TNQMR8	Pos KM	Pos KM
TNURZQ	Pos KM	Pos KM
TPK7XE	Pos KM	Pos KM
TQWYWN	Pos KM, HemaTrace	Pos KM
TUKDKX	Pos KM	Pos KM
TUL294	Pos KM	Pos KM
TW9Z2R	Pos KM	Pos KM
TXYXLR	Pos KM	Pos KM
TYCHCG	Pos KM, Luminol	Pos KM, Luminol
TZMK3L	Pos KM	Pos KM
U28XVN	Pos Hemastix	Pos Hemastix
U42G8M	Pos KM, HemaTrace	Pos KM, HemaTrace
UEZC4X	Pos KM, HemaTrace	Pos KM, HemaTrace
UFCUFB	Pos O-tol	Pos O-tol
UKC24U	Pos KM	Pos KM
UUFBBJ	Pos KM, HemaTrace	Pos KM, HemaTrace
UVRWZK	Pos O-tol	Pos O-tol
UX9LYN	Pos Hemastix	Pos Hemastix
V3LJ8B	Pos KM, HemaTrace	Pos KM, HemaTrace

TABLE 1a

WebCode	Blood Screening Results	
	Item 3	Item 4
V4HTLM	Pos KM	Pos KM
VDM3QQ	Pos KM, HemaTrace	Pos KM, HemaTrace
VGPU84	Pos KM, HemaTrace	Pos KM, HemaTrace
VJTPNL	Pos KM	Pos KM
VKKR9F	Pos KM, HemaTrace	Pos KM, HemaTrace
VRLZYG	Pos KM, Hemdirect	Pos KM, Hemdirect
VV6Y7K	Pos KM, HemaTrace	Pos KM, HemaTrace
VXARXX	Pos KM, HemaTrace	Pos KM, HemaTrace
VXWV27	Pos KM	Pos KM
VZF29F	Pos KM	Pos KM
W26VB3	Pos KM	Pos KM
W9DZNV	Pos KM	Pos KM
WAJHNC	Pos KM	Pos KM
WBDCZM	Pos KM, HemaTrace	Pos KM, HemaTrace
WGH4C7	Pos KM	Pos KM
WNJEM6	Pos KM, HemaTrace	Pos KM, HemaTrace
WRGRGG	Pos LMG	Pos LMG
WTW2HU	Pos KM	Pos KM
X2FXLE	Pos LMG, HemaTrace	Pos LMG, HemaTrace
X6G8KN	Pos HemaTrace	Pos HemaTrace
X9KTNM	Pos Hemastix	Pos Hemastix
XAFCKM	Pos Hemochromogen	Pos Hemochromogen
XAG4LC	Pos KM	Pos KM
XBNPPH	Pos LMG	Pos LMG
XCWVBJ	Pos KM Test, Visual	Pos KM test, Visual
XDFNFM	Pos TMB	Pos TMB
XGV3ZM	Pos KM and HemaTrace	Pos KM and HemaTrace
XH9JBF	Pos KM	Pos KM
XKDC28	Pos KM, HemaTrace	Pos KM, HemaTrace
XKZNWZ	Pos KM	Pos KM
XLCHF8	Pos KM, Hem	Pos KM, Hem
XMFC26	Pos KM	Pos KM
XTQ8CU	Pos KM	Pos KM
XVXFCD	Pos KM, LMG, HemaTrace	Pos KM, LMG, HemaTrace
XWUZ9D	Pos KM, HemaTrace	Pos KM, HemaTrace

TABLE 1a

WebCode	Blood Screening Results	
	Item 3	Item 4
XYZAEP	Pos KM, ABACard	Pos KM, ABACard
Y7REE4	Pos KM	Pos KM
Y8NMTE	Pos KM, HemaTrace	Pos KM, HemaTrace
YAQPB4	Pos KM	Pos KM
YBMYPE	Pos KM, HemaTrace	Pos KM, HemaTrace
YFFACY	Pos HemaTrace	Pos HemaTrace
YLMUKP	Pos KM	Pos KM
YQ28PH	Pos KM, HemaTrace	Pos KM
YUKCBY	Pos KM and HemaTrace	Pos KM and HemaTrace
YVRU6N	Pos RSID	Pos RSID
YXGW4X	Pos KM, TMB	Pos KM, TMB
YXYXC	Pos KM, HemaTrace	Pos KM, HemaTrace
Z2ZD4G	Pos KM	Pos KM
Z3RFNC	Pos KM, HemaTrace	Pos KM, HemaTrace
Z7PYNP	Pos LMG, HemaTrace	Pos LMG, HemaTrace
Z9W9UZ	Pos KM, TMB	Pos KM, TMB
ZBG79H	Pos KM, HD	Pos KM, HD
ZBZ2QK	Pos KM, HemaTrace	Pos KM, HemaTrace
ZD4UHX	Pos Hema-Trace	Pos Hema-Trace
ZK7WTP	Pos KM, Hexagon OBTI	Pos KM, Hexagon OBTI
ZNMBB4	Pos KM, HemaTrace	Pos KM, HemaTrace
ZVJBGJ	Pos KM	Pos KM

Table 1a: Serology Screening Response Summary - Blood		Participants: 370	
This table excludes participants who did not report or reported "Not Tested" for both Item 3 and Item 4.			
	Item 3	Item 4	
Positive	370	369	
Negative	0	0	
Inconclusive	0	0	
Not Tested (NT)	0	1	
Not Reported	0	0	



# Serology Screening Results

Indicate the results of any screening tests performed on the questioned stains (Items 3 & 4).

TABLE 1b

WebCode	Semen Screening Results	
	Item 3	Item 4
22TQ4E	Neg BCIP	Pos BCIP, p30, Micro
243KYE	Neg AP	Pos AP, Micro
2D3EMC	Neg AP	Pos AP, Micro
2FD9WJ	Neg ALS, AP	Pos ALS, AP, Micro
2HHXYR	Neg AP, ALS	Pos AP, ALS, p30, Micro
2L99VJ	Neg ABACard p30	Pos ABACard p30
2N6LVH	Neg ALS, AP	Pos ALS, AP, Micro
2QB3ZF	Neg ALS, AP, Micro	Pos ALS, AP, Micro
2QB99M	Neg ALS, AP	Pos ALS, AP, PSA
2R6WRH	NT	Pos ALS, AP, Micro
2RNMRP	Neg AP	Pos AP, PSA
2XN7TZ	Neg BCIP, ALS	Pos BCIP, p30, Micro, ALS
3BRW47	Neg AP, Micro	Pos AP, Micro
3GGG62	Neg AP Micro	Pos AP Micro
3JPK4J	Neg AP, PSA, Micro	Pos AP, PSA, Micro
3Q3PKH	NT	Pos AP, Micro
3RWD4D	Neg AP, PSA, Micro	Pos AP, PSA, Micro
3WCRZK	Neg PSA	Pos PSA
43E3RB	Neg AP	Pos AP, Micro, PSA
44CJVZ	Neg ALS, AP	Pos ALS, AP, PSA, KPIC
487EJZ	Neg AP	Pos AP + Micro
4AGZNU	Neg AP/Micro	Pos AP/Micro
4C3HQR	Neg p30	Pos p30
4E2J7A	Neg AP, Micro, PSA	Pos AP, Micro, PSA
4EUZLL	Neg AP	Pos AP, Micro
4FMRV7	Neg ALS, AP, Micro	Pos ALS, AP, Micro
4H2U3A	Neg AP, PSA, Micro	Pos AP, PSA, Micro
4M8RBJ	Neg ALS, AP/FBB	Pos ALS, AP/FBB, PSA
4MG9YG	Neg AP	Pos AP, Micro, PSA
4NCR2H	Neg AP, PSA	Pos AP, PSA, Micro
4P9CLW	Neg PSA	Pos AP, PSA
4T9DTK	Neg AP, Micro	Pos AP, Micro, PSA

TABLE 1b

WebCode	Semen Screening Results	
	Item 3	Item 4
4TA2FQ	<b>Neg</b> AP, Micro	<b>Pos</b> AP, Micro
4TQC2C	<b>Neg</b> ALS, AP, Micro, PSA	<b>Pos</b> ALS, AP, Micro, PSA
4U3V3A	<b>Neg</b> AP, PSA, Micro	<b>Pos</b> AP, PSA, Micro
4VEUCA	<b>Neg</b> AP	<b>Pos</b> AP, PSA, Micro
62JTKE	<b>Neg</b> ALS, AP, PSA	<b>Pos</b> ALS, AP, PSA, Micro
66YDXU	<b>Neg</b> AP	<b>Pos</b> AP, PSA
67B9HZ	<b>Neg</b> ALS, AP, p30, Micro	<b>Pos</b> ALS, AP, p30, Micro
688GWC	<b>Neg</b> AP	<b>Pos</b> AP, Micro, PSA
6C2F82	<b>Neg</b> AP, Micro, PSA	<b>Pos</b> AP, Micro, PSA
6DCF7F	<b>Neg</b> AP	<b>Pos</b> AP, Micro
6DE24G	<b>Neg</b> AP, ALS	<b>Pos</b> AP, RSID-Semen, Micro
6J3NYM	<b>Neg</b> ALS, AP	<b>Pos</b> ALS, AP, Micro
6M3W6H	<b>Neg</b> ALS, FBB	<b>Pos</b> ALS, FBB, PSA
6V9TTV	<b>Neg</b> AP	<b>Pos</b> AP, Micro, PSA
76ZETR	<b>Neg</b> AP, Micro	<b>Pos</b> AP, Micro
78HQEB	<b>Neg</b> ALS, AP, Micro	<b>Pos</b> ALS, AP, Micro
78LFBL	<b>Neg</b> AP	<b>Pos</b> AP, Micro
7MYR2T	<b>Neg</b> AP	<b>Pos</b> AP, Micro, PSA
7V99M8	<b>Neg</b> AP	<b>Pos</b> AP, PSA, Micro
7VNCCT	<b>Neg</b> AP	<b>Pos</b> AP, Micro
7YPLDM	<b>Neg</b> PSA, Micro	<b>Pos</b> PSA, Micro
834PGB	<b>Neg</b> AP	<b>Pos</b> AP, PSA, Micro
84EEX2	<b>Neg</b> AP, Micro	<b>Pos</b> AP, Micro
86EK89	<b>Neg</b> AP	<b>Pos</b> AP, PSA, Micro
8EWZAB	<b>Neg</b> ALS, AP, PSA, Micro	<b>Pos</b> ALS, AP, PSA, Micro
8HG27H	<b>Neg</b> Seratec PSA Semiquant	<b>Pos</b> Seratec PSA Semiquant
8NPD8P	<b>Neg</b> AP, Micro	<b>Pos</b> AP, Micro
8V3HQA	<b>NT</b> as Suspects own shirt	<b>Pos</b> AP and Microscopy
8WKDN3	<b>Neg</b> AP, Micro, Sg	<b>Pos</b> AP, Micro
8YHT3R	<b>NT</b>	<b>Pos</b> AP
93KUWN	<b>Neg</b> AP, PSA, Micro	<b>Pos</b> AP, PSA, Micro
97E6FZ	<b>Neg</b> AP, Micro	<b>Pos</b> AP, Micro, p30
9AULN6	<b>Neg</b> AP	<b>Pos</b> AP, Micro
9GJ2T4	<b>Neg</b> AP, Micro, RSID	<b>Pos</b> AP, Micro

TABLE 1b

WebCode	Semen Screening Results	
	Item 3	Item 4
9JQFYA	<b>Neg</b> BCIP	<b>Pos</b> BCIP
9K3ZZ8	<b>Neg</b> AP, PSA	<b>Pos</b> AP, PSA
9NKDN2	<b>Neg</b> AP, Micro, ALS	<b>Pos</b> AP, Micro, ALS
9YYBEC	<b>Neg</b> AP, RSID Semen, ALS	<b>Pos</b> AP, RSID Semen, ALS
9ZA76B	<b>Neg</b> ALS, AP	<b>Pos</b> ALS, AP
9ZJTWQ	<b>Neg</b> Micro, PSA	<b>Pos</b> Micro, PSA
A3WB78	<b>Neg</b> AP	<b>Pos</b> AP, Micro
A4N6WV	<b>Neg</b> ALS, AP	<b>Pos</b> ALS, AP, PSA, Micro
A7TXK3	<b>Neg</b> AP, PSA, Micro	<b>Pos</b> AP, PSA, Micro
A97GY7	<b>Neg</b> AP	<b>Pos</b> AP, Micro, PSA
A9G82V	<b>Neg</b> AP, ALS	<b>Pos</b> ALS, AP, PSA, Micro
AFKBZU	<b>Neg</b> AP, Micro, RSID	<b>Pos</b> AP, Micro
AKXXVK	<b>Neg</b> AP, ALS, Micro, PSA	<b>Pos</b> AP, ALS, Micro, PSA
ALRLEF	<b>Neg</b> AP, Micro	<b>Pos</b> AP, Micro
ANECAT	<b>Neg</b> AP	<b>Pos</b> AP, Micro
AYYUUD	<b>Neg</b> AP	<b>Pos</b> AP, Micro
AZM4Q8	<b>Neg</b> AP, PSA, Micro	<b>Pos</b> AP, PSA, Micro
B24JWL	<b>Neg</b> AP	<b>Pos</b> AP, Micro
B4H92Q	<b>Neg</b> ALS, AP	<b>Pos</b> ALS, AP, Micro, PSA
B7A8JV	<b>Neg</b> ALS, AP, PSA, Micro	<b>Pos</b> ALS, AP, PSA, Micro
BAC8FL	<b>Neg</b> AP	<b>Pos</b> AP
BHKVEE	<b>Neg</b> ALS, AP, PSA, Micro	<b>Pos</b> ALS, AP, PSA, Micro
BJ4RTY	<b>Neg</b> AP, Micro, RSID	<b>Pos</b> AP, Micro
BMLR9F	<b>Neg</b> ALS, AP	<b>Pos</b> ALS, AP, Micro
BNUXGA	<b>Neg</b> Phosphatesmo, PSA	<b>Pos</b> Phosphatesmo, PSA
BP2CLU	<b>Neg</b> AP, Micro	<b>Pos</b> AP, Micro
BRT7PQ	<b>Neg</b> AP, PSA	<b>Pos</b> AP, PSA
BRTHBK	<b>Neg</b> AP, Micro	<b>Pos</b> AP, Micro
BUL9K7	<b>Neg</b> ALS, AP	<b>Pos</b> ALS, AP, Micro
BV7CY6	<b>Neg</b> ALS, AP, Micro	<b>Pos</b> ALS, AP, Micro
BVTMVT	<b>Neg</b> PSA (SERATEC PSA)	<b>Pos</b> PSA (SERATEC PSA)
C6E2HV	<b>Neg</b> AP	<b>Pos</b> AP, Micro
CEYEF7	<b>Neg</b> AP, Seratec PSA, Micro	<b>Pos</b> AP, Seratec PSA, Micro
CGACTN	<b>Neg</b> ALS, AP	<b>Pos</b> ALS, AP, PSA, Micro

TABLE 1b

WebCode	Semen Screening Results	
	Item 3	Item 4
CV97FP	<b>Neg</b> ALS, AP	<b>Pos</b> ALS, AP, PSA, Micro
D2VECU	<b>Neg</b> AP	<b>Pos</b> AP, Micro
D9TXJQ	<b>Neg</b> Micro, PSA, ALS	<b>Pos</b> Micro, ALS
DA8BEE	<b>Neg</b> AP	<b>Pos</b> AP, Micro
DCCYVQ	<b>Neg</b> ALS and AP	<b>Pos</b> ALS, AP, PSA (p30), and Micro
DGKM87	<b>Neg</b> ALS, AP, Micro, PSA	<b>Pos</b> ALS, AP, Micro
DJCJXL	<b>Neg</b> AP, PSA, Micro	<b>Pos</b> AP, PSA, Micro
DN4T4D	<b>Neg</b> ALS, AP	<b>Pos</b> ALS, AP, Micro
DQPGHY	<b>Neg</b> AP	<b>Pos</b> AP; PSA; Micro
DUDV79	<b>Neg</b> p30	<b>Pos</b> p30, Micro
DY2M7P	<b>Neg</b> ALS, AP	<b>Pos</b> ALS, AP, Micro, PSA
DY3N29	<b>Neg</b> ALS, FBB	<b>Pos</b> ALS, FBB, PSA
E34P4Q	<b>Neg</b> ALS, AP	<b>Pos</b> ALS, AP, PSA, Micro
E3VZ86	<b>NT</b>	<b>Pos</b> AP, Micro
E6PKK4	<b>Neg</b> AP	<b>Pos</b> AP, PSA, Micro
E9BF8W	<b>Neg</b> AP, Micro, RSID	<b>Pos</b> AP, Micro
ECP2VA	<b>Neg</b> AP	<b>Pos</b> AP, Micro
EKKMRG	<b>Neg</b> AP, RSID	<b>Pos</b> AP, Micro, RSID
ENGVYQ	<b>Neg</b> AP, Micro	<b>Pos</b> AP, Micro
EPD4D3	<b>Neg</b> AP	<b>Pos</b> AP, Micro, PSA
ETBPZY	<b>Neg</b> AP	<b>Pos</b> AP, Micro, PSA
F2F7WW	<b>Neg</b> AP, PSA, Micro, ALS	<b>Pos</b> AP, PSA, Micro, ALS
FAXC2G	<b>Neg</b> AP	<b>Pos</b> AP
FDVN2M	<b>Neg</b> AP, Micro	<b>Pos</b> AP, Micro, PSA
FEAD6Y	<b>Neg</b> AP	<b>Pos</b> AP, Micro, PSA
FEVX3J	<b>Neg</b> AP, PSA, Micro	<b>Pos</b> AP, PSA, Micro
FFHHK9	<b>Neg</b> PSA	<b>Pos</b> AP, Micro, PSA
FGAL8N	<b>Neg</b> AP	<b>Pos</b> AP, PSA
FGUEXZ	<b>Neg</b> AP, PSA, Microscopy	<b>Pos</b> AP, PSA, Microscopy
FMLEHM	<b>Neg</b> ALS, AP, PSA	<b>Pos</b> ALS, AP, PSA
FMY4LZ	<b>Neg</b> AP, Micro	<b>Pos</b> AP, Micro
FQ86Z6	<b>NT</b>	<b>Pos</b> ALS, AP, Micro
FQMLXJ	<b>Neg</b> AP, PSA, and Micro	<b>Pos</b> AP, PSA, and Micro
FT6UUX	<b>Neg</b> AP	<b>Pos</b> AP, Micro, PSA

TABLE 1b

WebCode	Semen Screening Results	
	Item 3	Item 4
FTMQEK	Neg AP	Pos AP, Micro
FVXCLY	Neg AP	Pos AP, PSA, Micro
FYFYTC	Neg ALS, AP	Pos ALS, AP, Micro
G3CU6K	Neg AP	Pos AP, p30, Micro
G6FRAL	Neg AP, Micro	Pos AP, Micro
G8ZMPY	Neg RSID	Pos RSID
GDBMCP	Neg AP	Pos AP, Micro
GEPZ6T	Neg ALS, AP, Micro	Pos ALS, AP, Micro
GKVQJT	Neg AP	Pos AP
GM29JA	Neg ALS, Micro, PSA	Pos ALS, Micro
GQTJBY	Neg AP, Seratec PSA, Microscopic	Pos AP, Seratec PSA, Microscopic
GQYLDZ	Neg AP, PSA, Micro	Pos AP, PSA, Micro
GXZNNT	Neg AP, Micro	Pos AP, Micro
GYHNXA	Inc AP & ALS	Pos AP, PSA, & ALS
H2NYP3	Neg AP	Pos AP, Micro
H4JEMT	Neg AP, Micro	Pos AP, Micro
H8Y9YJ	Neg RSID Semen, PSA	Pos RSID Semen, PSA
H9A22Y	NT	Pos AP; Micro; PSA
H9E37K	Neg AP	Pos AP, Micro
H9E9ET	Neg AP, RSID, Micro	Pos AP, Micro
HG9BNQ	Neg AP, Micro	Pos AP, Micro
HJEVCQ	Neg AP, Micro	Pos AP, Micro
HPG2RU	Neg AP	Pos AP, Micro
HPZNNQ	Neg AP, Micro for Sperm	Pos AP, Micro for Sperm
HRQ3W2	Neg AP	Pos AP, PSA, Micro
HTJXJA	Neg PSA, Micro	Pos PSA, Micro
HUEGKB	Neg AP	Pos AP, Micro
HUTQRQ	Neg AP, p30, Micro, ALS	Pos AP, p30, Micro, ALS
HXR4DU	Neg AP	Pos AP, Micro
J7HB7K	Neg RSID Semen	Pos RSID Semen
JA4YXC	Neg ALS, AP	Pos ALS, AP, Micro
JCN3FH	Neg AP	Pos AP, PSA
JHGVWR	Neg AP, Seratec	Pos AP, Seratec, Micro
JKJXJ8	Neg AP	Pos AP, PSA

TABLE 1b

WebCode	Semen Screening Results	
	Item 3	Item 4
JNMM8A	<b>Neg</b> AP, Micro	<b>Pos</b> AP, Micro
JPXHK2	<b>Neg</b> AP	<b>Pos</b> AP
JRL3HJ	<b>Neg</b> Micro, PSA	<b>Pos</b> Micro, PSA
JWFR9X	<b>Neg</b> ALS; AP; Micro	<b>Pos</b> ALS; AP; Micro
K27KGJ	<b>Neg</b> PSA, Micro	<b>Pos</b> PSA, Micro
K6T7MD	<b>Neg</b> AP, Micro, PSA	<b>Pos</b> AP, Micro, PSA
K8CA74	<b>Neg</b> AP	<b>Pos</b> AP, Micro
K8UAAT	<b>Neg</b> AP	<b>Pos</b> AP, PSA, Micro
KEUHQU	<b>Neg</b> AP	<b>Pos</b> AP, Micro, PSA
KFNBJR	<b>Neg</b> AP, Micro	<b>Pos</b> AP, Micro
KFQ9KF	<b>Neg</b> AP	<b>Pos</b> AP, PSA, Micro
KJAYBK	<b>Neg</b> AP, Micro, RSID	<b>Pos</b> AP, Micro
KMAA8J	<b>Neg</b> AP, Micro, RSID	<b>Pos</b> AP, Micro
KR47R6	<b>Neg</b> AP	<b>Pos</b> AP, Micro
KTBHGT	<b>Neg</b> AP	<b>Pos</b> AP, Micro
KURLFE	<b>Neg</b> p30, Micro	<b>Pos</b> p30, Micro
KYLH66	<b>Neg</b> AP, Micro	<b>Pos</b> AP, Micro
L29GW9	<b>Neg</b> ALS, AP, Micro	<b>Pos</b> ALS, AP, Micro
L3TQ9T	<b>Neg</b> PSA	<b>Pos</b> PSA
L4ATAZ	<b>Neg</b> AP	<b>Pos</b> AP, Micro
L9NGTW	<b>Neg</b> AP, Micro, PSA	<b>Pos</b> AP, Micro, PSA
LDFFDU	<b>Neg</b> AP, PSA, Micro	<b>Pos</b> AP, PSA, Micro
LEPH7K	<b>Neg</b> AP, Micro	<b>Pos</b> AP, Micro, PSA
LGUFBL	<b>Neg</b> AP, Micro, PSA	<b>Pos</b> AP, Micro, PSA
LJZQBV	<b>Neg</b> AP	<b>Pos</b> AP, PSA, Micro
LKX4XN	<b>Neg</b> AP	<b>Pos</b> AP, Micro, PSA
LMRJVE	<b>Neg</b> AP, PSA, Micro	<b>Pos</b> AP, PSA, Micro
LP88ZJ	<b>Neg</b> AP	<b>Pos</b> AP, Micro
LPRWCC	<b>Neg</b> Micro, AP, PSA	<b>Pos</b> Micro, AP, PSA
LQ7DBC	<b>Neg</b> AP, PSA, Micro	<b>Pos</b> AP, PSA, Micro
LU3867	<b>Neg</b> AP	<b>Pos</b> AP, Micro
LZNZ4Y	<b>Neg</b> AP, Micro, PSA	<b>Pos</b> AP, Micro, PSA
M6H8AE	<b>Neg</b> AP, PSA	<b>Pos</b> AP, PSA
M6YEFW	<b>Neg</b> AP	<b>Pos</b> AP, PSA, Micro

TABLE 1b

WebCode	Semen Screening Results	
	Item 3	Item 4
M8MT47	Neg AP	Pos AP, Micro
M9XMRT	NT	Pos PSA
MB438C	Neg AP	Pos AP, Micro
MBL6Z7	Neg AP	Pos AP, Micro
MG88YV	Neg AP	Pos AP
MHLP4M	Neg AP	Pos AP, PSA, Micro
MMFKML	Neg AP	Pos AP, Micro
MP2CUH	Neg AP, Micro, ALS	Pos AP, Micro, ALS
MV87ND	Neg AP	Pos AP
N2C3CK	Neg ALS, STMP, Micro	Pos ALS, STMP, Micro
N3QLY3	Neg AP	Pos AP, PSA
NAE6MC	Neg AP	Pos AP, Micro, PSA
NCEHZ4	Neg p30	Pos p30; Micro
NGBYKB	Neg PSA, Micro	Pos PSA, Micro
NNRHUC	Neg ALS, AP	Pos ALS, AP, PSA, Micro
NVBB39	Neg ALS, AP	Pos ALS, AP; RSID-Semen, Micro
P33P4E	Neg Micro, PSA, ALS	Pos Micro, ALS
P4FE9C	Neg BCIP	Pos BCIP, p30, Micro
PBJC3A	Neg AP	Pos AP, Micro, PSA
PC8PKT	Neg AP	Pos AP, PSA, Micro
PFTE3K	Neg ALS, AP	Pos ALS, AP, Micro
PLA2MN	Neg AP, PSA, Micro	Pos AP, PSA, Micro
PQNRWP	Neg AP, Micro	Pos AP, Micro
PZHNBD	Neg Micro, PSA	Pos Micro, PSA
Q4RFKD	Neg PSA, Micro	Pos PSA, Micro
Q6MYQK	Neg PSA	Pos PSA
Q7HMY9	Neg PSA, Micro	Pos PSA, Micro
Q7KALN	Neg AP	Pos AP, Micro, PSA
Q9ALD7	Neg AP, Micro, ALS	Pos AP, Micro, ALS
QAE79T	NT	Pos AP, Micro
QAHUHK	Neg AP, Micro, RSID	Pos AP, Micro, RSID
QBDCJL	Neg AP, Micro, RSID Semen	Pos AP, Micro
QFN9LA	Neg AP	Pos AP, Micro, PSA
QFTPK9	Neg Micro, PSA	Pos Micro, PSA

TABLE 1b

WebCode	Semen Screening Results	
	Item 3	Item 4
QHUQMQ	<b>Neg</b> ALS, AP	<b>Pos</b> ALS, AP, PSA, Micro
QJR4AJ	<b>Neg</b> AP, Micro, ALS	<b>Pos</b> AP, Micro, ALS
QKZFPZ	<b>Neg</b> ALS, AP	<b>Pos</b> ALS, AP, Micro
QPCBJC	<b>Neg</b> BCIP	<b>Pos</b> BCIP, Micro
QWVC4V	<b>Neg</b> p30	<b>Pos</b> p30, Micro
QYU4HL	<b>Neg</b> AP, Micro, PSA	<b>Pos</b> AP, Micro, PSA
R8MJXG	<b>Neg</b> ALS, AP, Micro	<b>Pos</b> ALS, AP, Micro
R96LRW	<b>Neg</b> ALS, AP	<b>Pos</b> ALS, AP, PSA
RB6QD4	<b>Neg</b> AP	<b>Pos</b> AP
RJHVAV	<b>Neg</b> AP, PSA	<b>Pos</b> AP, PSA
RKFWKT	<b>Neg</b> ALS, AP	<b>Pos</b> ALS, AP, Micro
RNVHX9	<b>Neg</b> AP, PSA, Micro	<b>Pos</b> AP, PSA, Micro
RP7H3F	<b>Neg</b> AP	<b>Pos</b> AP, PSA, Micro
RPQ24F	<b>Neg</b> AP, PSA, Micro	<b>Pos</b> AP, PSA, Micro
RVWTCD	<b>Neg</b> AP	<b>Pos</b> AP, PSA, Micro
RWQK4Q	<b>Neg</b> AP, PSA, Micro	<b>Pos</b> AP, PSA, Micro
RWWJR9	<b>Neg</b> AP	<b>Pos</b> AP, Micro, PSA
RX6RY8	<b>Neg</b> AP, PSA, Micro	<b>Pos</b> AP, PSA, Micro
RZNVZL	<b>Neg</b> Brentamine	<b>Pos</b> Brentamine, PSA, Micro
RZRHXQ	<b>Neg</b> AP	<b>Pos</b> AP, PSA, Micro
T37NLC	<b>Neg</b> AP (Phosphatesmo KM), PSA (SERATEC), RSID Semen	<b>Pos</b> AP (Phosphatesmo KM), PSA (SERATEC), RSID Semen
T43YLL	<b>NT</b>	<b>Pos</b> ALS, AP, PSA, Micro
T4RYW7	<b>Neg</b> AP, PSA, Micro	<b>Pos</b> AP, PSA, Micro
T6FJEW	<b>NT</b>	<b>Pos</b> ALS, AP, PSA, Micro
T78M2B	<b>Neg</b> AP, PSA	<b>Pos</b> AP, PSA
TBNWA9	<b>Neg</b> ALS, AP	<b>Pos</b> ALS, AP, Micro, PSA
TE4H3F	<b>Neg</b> AP, Micro	<b>Pos</b> AP, Micro
TFHVX6	<b>Neg</b> AP, PSA, Micro	<b>Pos</b> AP, PSA, Micro
TJT4P9	<b>Neg</b> AP	<b>Pos</b> AP
TL7PLP	<b>Neg</b> AP, Micro	<b>Pos</b> AP, Micro
TMHEVU	<b>Neg</b> ALS, FBB	<b>Pos</b> ALS, FBB, PSA
TMJ48D	<b>Neg</b> AP, Micro	<b>Pos</b> AP, Micro
TMTDV6	<b>Neg</b> ABA CARD p30	<b>Pos</b> ABA CARD p30
TNQMR8	<b>Neg</b> AP	<b>Pos</b> AP, Micro



TABLE 1b

WebCode	Semen Screening Results	
	Item 3	Item 4
TNURZQ	Neg AP	Pos AP, Micro
TPK7XE	Neg AP, PSA, Micro	Pos AP, PSA, Micro
TQWYWN	Neg AP	Pos AP, PSA, Micro
TUKDKX	Neg ALS, Micro, p30	Pos ALS, Micro
TW9Z2R	Neg AP	Pos AP, Micro
TXYXLR	Neg AP	Pos AP
TYCHCG	Neg AP, ALS	Pos AP, ALS, Micro
TZMK3L	NT	Pos AP, Micro
U28XVN	Neg AP	Pos AP
U42G8M	Neg AP	Pos AP, PSA, Micro
UEZC4X	Neg AP	Pos AP, PSA, Micro
UFCUFB	Neg ALS, AP	Pos ALS, AP, Micro
UKC24U	Neg PSA, Micro	Pos PSA, Micro
UUFBBJ	Neg AP, Seratec	Pos AP, Seratec, Micro
UVRWZK	Neg AP	Pos AP, Micro
UX9LYN	NT	Pos AP
V3LJ8B	Neg ALS, AP, p30, Micro	Pos ALS, AP, p30, Micro
V4HTLM	Neg AP	Pos AP, Micro, PSA
VDM3QQ	Neg AP, p30	Pos AP, p30, Micro
VGPU84	Neg PSA, Micro, AP	Pos PSA, Micro, AP
VJTPNL	Neg BCIP	Pos BCIP, Micro
VKKR9F	Neg AP	Pos AP, PSA, Micro
VRLZYG	Neg AP, Micro, RSID	Pos AP, Micro
VV6Y7K	Neg ALS, AP, Micro, PSA	Pos ALS, AP, Micro, PSA
VXARXX	Neg AP	Pos AP, Micro
VXWV27	Neg Micro, PSA	Pos Micro, PSA
VZF29F	Neg AP, Micro	Pos AP, Micro
W26VB3	Neg Micro, PSA	Pos Micro, PSA
W9DZNV	Neg ALS, AP	Pos ALS, AP, Micro
WBDCZM	Neg AP	Pos AP, PSA, Micro
WGH4C7	Neg PSA, Micro	Pos PSA, Micro
WRGRGG	Neg AP	Pos AP, Micro, PSA
WTW2HU	Neg ALS, AP	Pos ALS, AP, Micro
X2FXLE	Neg AP, PSA, Micro	Pos AP, PSA, Micro

TABLE 1b

WebCode	Semen Screening Results	
	Item 3	Item 4
X6G8KN	<b>Neg</b> PSA/p30	<b>Pos</b> PSA/p30, Micro
X9KTNM	<b>NT</b>	<b>Pos</b> AP
XAFCKM	<b>NT</b>	<b>Pos</b> AP, Micro
XAG4LC	<b>Neg</b> AP, Micro	<b>Pos</b> AP, Micro
XBNPPH	<b>Neg</b> AP, PSA, Micro	<b>Pos</b> AP, PSA, Micro
XCWVBJ	<b>NT</b>	<b>Pos</b> AP, Microscopy
XDFNFM	<b>NT</b>	<b>Pos</b> AP, Microscopy
XGV3ZM	<b>Neg</b> p30 and Micro	<b>Pos</b> p30 and Micro
XH9JBF	<b>Neg</b> AP	<b>Pos</b> AP, Micro
XKDC28	<b>Neg</b> PSA, Micro	<b>Pos</b> PSA, Micro
XKZNWZ	<b>Neg</b> AP, Micro, PSA	<b>Pos</b> AP, Micro, PSA
XLCHF8	<b>Neg</b> AP, RSID, Micro	<b>Pos</b> AP, Micro
XMFC26	<b>Neg</b> AP	<b>Pos</b> AP
XTQ8CU	<b>Neg</b> ALS, AP	<b>Pos</b> ALS, AP, Micro
XVXFCD	<b>Neg</b> ALS, AP, PSA, Micro	<b>Pos</b> ALS, AP, PSA, Micro
XWUZ9D	<b>Neg</b> AP, Micro, RSID	<b>Pos</b> AP, Micro
XYZAEP	<b>Neg</b> AP, p30	<b>Pos</b> AP, p30, Micro
Y7REE4	<b>Neg</b> ALS, Micro, PSA	<b>Pos</b> ALS, Micro
Y8NMTE	<b>Neg</b> AP, Seratec	<b>Pos</b> AP, Seratec, Micro
YAQPB4	<b>Neg</b> ALS, Micro, PSA	<b>Pos</b> ALS, Micro
YBMYPE	<b>Neg</b> AP, Seratec	<b>Pos</b> AP, Seratec, Micro
YFFACY	<b>Neg</b> p30	<b>Pos</b> p30
YLMUKP	<b>Neg</b> AP, PSA	<b>Pos</b> AP, PSA, Micro
YQ28PH	<b>Neg</b> AP	<b>Pos</b> AP, Micro, p30
YVRU6N	<b>Neg</b> PSA, ALS	<b>Neg</b> ALS
YXGW4X	<b>Neg</b> AP	<b>Pos</b> AP
YXYXC	<b>Neg</b> AP	<b>Pos</b> AP, Micro, PSA
Z2ZD4G	<b>Neg</b> ALS, BCIP	<b>Pos</b> ALS, BCIP, p30, Micro
Z3RFNC	<b>Neg</b> AP	<b>Pos</b> AP, PSA, Micro
Z7PYNP	<b>Neg</b> ALS, AP, PSA, Micro	<b>Pos</b> ALS, AP, PSA, Micro
Z9W9UZ	<b>Neg</b> AP	<b>Pos</b> AP, PSA, Micro
ZBG79H	<b>Neg</b> ALS, AP, Micro	<b>Pos</b> ALS, AP, Micro
ZBZ2QK	<b>Neg</b> ALS, AP, Micro	<b>Pos</b> ALS, AP, Micro
ZD4UHX	<b>Neg</b> PSA	<b>Pos</b> PSA

TABLE 1b

WebCode	Semen Screening Results	
	Item 3	Item 4
ZK7WTP	NT	Pos AP, Micro, PSA
ZNMBB4	Neg PSA, Micro	Pos PSA, Micro
ZVJBGJ	NT	Pos AP, Micro

Table 1b: Serology Screening Response Summary - Semen			Participants: 341
This table excludes participants who did not report or reported "Not Tested" for both Item 3 and Item 4.			
	Item 3	Item 4	
Positive	0	340	
Negative	321	1	
Inconclusive	1	0	
Not Tested (NT)	19	0	
Not Reported	0	0	

# Serology Screening Results

Indicate the results of any screening tests performed on the questioned stains (Items 3 & 4).

TABLE 1c

WebCode	Saliva Screening Results	
	Item 3	Item 4
243KYE	Neg RSID-Saliva	Neg RSID-Saliva
2RNMRP	Neg RSID	Neg RSID
3GGG62	Neg Phadebas	Neg Phadebas
3JPK4J	Neg RSID	Neg RSID
3RWD4D	Neg Amylase	Neg Amylase
3WCRZK	Neg RSID	Neg RSID
487EJZ	Neg Phadebas	Neg Phadebas
4AGZNU	Neg RSID	Neg RSID
4C3HQR	Neg Phadebas	Neg RSID
4FMRV7	Neg Phadebas	Neg Phadebas
4NCR2H	Neg RSID	NT
4T9DTK	Neg Phadebas	Neg Phadebas
4TA2FQ	Neg RSID	Neg RSID
4TQC2C	Neg Seratec Amylase test	Neg Seratec Amylase test
67B9HZ	Neg Amylase, Micro	Neg Amylase, Micro
688GWC	Neg RSID Saliva	Neg RSID Saliva
6DCF7F	Neg RSID	NT
76ZETR	Neg RSID	Neg RSID
8HG27H	Neg Phadebas	Neg Phadebas
8NPD8P	Neg RSID	Neg RSID
8V3HQA	Neg Amylase paper - inconclusive, Phadebas tube test negative	Neg Amylase paper
8YHT3R	NT	Pos Amylase
9K3ZZ8	Neg RSID	Neg RSID
9NKDN2	Neg ALS, Phadebas	Neg ALS, Phadebas
9YYBEC	Neg RSID Saliva, Seratec Alpha Amylase, ALS	Neg RSID Saliva, Seratec Alpha Amylase, ALS
A97GY7	Neg Phadebas, RSID Saliva	Neg Phadebas, RSID Saliva
AKXXVK	Neg ALS, SERATEC Amylase	Neg ALS, SERATEC Amylase
AYYUUD	Neg Phadebas	Neg Phadebas
B7A8JV	Neg ALS, Amylase, Micro	Neg ALS, Amylase, Micro
BP2CLU	Neg Phadebas	Neg Phadebas
CEYEF7	Neg Seratec Amylase	Neg Seratec Amylase
DJCJXL	Neg Phadebas	Neg Phadebas

TABLE 1c

WebCode	Saliva Screening Results	
	Item 3	Item 4
DUDV79	Neg RSID	Neg RSID
E3VZ86	NT	Neg Phadebas
EKKMRG	Neg RSID	Neg RSID
EPD4D3	Neg RSID	Neg RSID
FEVX3J	Neg Phadebas	Neg Phadebas
FFHHK9	Neg RSID	Neg RSID
FGUEXZ	Neg Amylase	Neg Amylase
FMLEHM	Neg ALS, Seratec AMY	Neg ALS, Seratec AMY
FQMLXJ	Neg Phadebas	Neg Phadebas
FTMQEK	NT	
G8ZMPY	Neg RSID	Neg RSID
GEPZ6T	Neg Phadebas	Neg Phadebas
GQTJBY	Neg Seratec Amylase	Neg Seratec Amylase
H8Y9YJ	Neg RSID Saliva	Neg RSID Saliva
HTJXJA	Neg RSID	Neg RSID
HUEGKB	Neg RSID	Neg RSID
HUTQRQ	Inc alpha-Amylase, Micro	Neg alpha-Amylase, Micro
J7HB7K	Neg RSID Saliva	Neg RSID Saliva
JKJXJ8	Neg RSID Saliva	Neg RSID Saliva
K27KGJ	Neg RSID	Neg RSID
K6T7MD	Neg Phadebas	Neg Phadebas
L29GW9	Neg RSID	Neg RSID
L3TQ9T		NT
L4ATAZ	Neg RSID	Neg RSID
LGUFBL	Neg Phadebas	Neg Phadebas
LMRJVE	Neg Phadebas	Neg Phadebas
LPRWCC	Neg Amylase Diffusion plate	Neg Amylase Diffusion plate
LQ7DBC	Neg Phadebas	Neg Phadebas
M8MT47	Neg RSID	NT
MBL6Z7	Neg RSID	Neg RSID
N2C3CK	Neg Amylase Diffusion	Neg Amylase Diffusion
N3QLY3	Neg RSID	Neg RSID
NCEHZ4	Neg RSID	Neg RSID
NNRHUC	Neg Phadebas	Neg Phadebas

TABLE 1c

WebCode	Saliva Screening Results	
	Item 3	Item 4
Q4RFKD	Neg RSID	Neg RSID
Q9ALD7	Neg RSID	Neg RSID
QAE79T	NT	Neg Phadebas
QJR4AJ	Neg Phadebas, ALS	Neg Phadebas, ALS
QWVC4V	Neg RSID	Neg RSID
R8MJXG	Neg Amylase Diffusion	Neg Amylase Diffusion
RJHVAV	Neg RSID	Neg RSID
RPQ24F	Neg Phadebas	Neg Phadebas
RWQK4Q	Neg Amylase Seratec Card	Neg Amylase Seratec Card
RX6RY8	Neg Phadebas	Neg Phadebas
T37NLC	Neg RSID Saliva, AMY SERATEC	Neg RSID Saliva
T4RYW7	Neg Phadebas	Neg Phadebas
TE4H3F	Neg RSID	Neg RSID
TFHVX6	Neg Phadebas	Neg Phadebas
TL7PLP	Neg RSID Saliva	Neg RSID Saliva
TQWYWN	Neg Phadebas	Neg Phadebas
TW9Z2R	Neg Phadebas	Neg Phadebas
UEZC4X	Neg RSID	Neg RSID
UKC24U	Neg RSID	Neg RSID
V4HTLM	NT	Neg RSID
VDM3QQ	Neg RSID	Neg RSID
VGPU84	Neg Phadebas	Neg Phadebas
VV6Y7K	Neg ALS, Phadebas	Neg ALS, Phadebas
VXARXX	NT	Neg RSID
X6G8KN	Neg RSID	Neg RSID
XBNPPH	Neg Amylase	Neg Amylase
XCWVBJ	NT	Neg Amylase paper screen
XGV3ZM	Neg RSID	Neg RSID
XKDC28	Neg RSID	Neg RSID
XKZNWZ	Neg Amylase Radial Diffusion	Neg Amylase Radial Diffusion
XVXFCD	Inc SALIgAE	Neg SALIgAE
YLMUKP	Neg RSID	Neg RSID
YQ28PH	Neg Phadebas	NT
ZBG79H	Neg ALS, RSID Saliva	Neg ALS, RSID Saliva

TABLE 1c

WebCode	Saliva Screening Results	
	Item 3	Item 4
ZNMBB4	Neg RSID	Neg RSID

Table 1c: Serology Screening Response Summary - Saliva			Participants: 101
This table excludes participants who did not report or reported "Not Tested" for both Item 3 and Item 4.			
	Item 3	Item 4	
Positive	0	1	
Negative	91	94	
Inconclusive	2	0	
Not Tested (NT)	7	5	
Not Reported	1	1	

# Serology Screening Results

Indicate the results of any screening tests performed on the questioned stains (Items 3 & 4).

TABLE 1d

WebCode	Human Origin Screening Results	
	Item 3	Item 4
2L99VJ	Pos ABACard HemaTrace	Pos ABACard HemaTrace
3RWD4D	Pos Quantifiler Trio	Pos Quantifiler Trio
3WCRZK	Pos Power Quant	Pos Power Quant
4C3HQR	Pos HemaTrace	Pos HemaTrace
4FMRV7	Pos QuantTrio	Pos QuantTrio
4P9CLW	Pos HemaTrace	Pos HemaTrace
4T9DTK	Pos Quant Trio	Pos Quant Trio
62JTKE	Pos HemDirect	Pos HemDirect
688GWC	Pos HemaTrace, PowerQuant	Pos HemaTrace, PowerQuant
6DE24G	Pos HemaTrace	Pos HemaTrace, RSID-Semen, Micro
8EWZAB	Pos HemDirect	Pos HemDirect
8HG27H	Pos Bluestar OBTI, Qiagen Investigator™ Quantiplex	Pos Bluestar OBTI, Qiagen Investigator™ Quantiplex
8WKDN3	Pos CWD	Pos CWD
9GJ2T4	Pos Y-Screening	Pos Y-Screening
9K3ZZ8	Pos PowerQuant	Pos PowerQuant
9NKDN2	Pos Quantifiler Trio	Pos Quantifiler Trio
9YYBEC	Pos FOB, Seratec PMB	Pos FOB, Seratec PMB, RSID Semen
A7TXK3	Pos HemaTrace, Quant Trio	Pos HemaTrace, Quant Trio
A97GY7	Pos HemaTrace, PowerQuant	Pos PowerQuant
AFKBZU	Pos	Pos
AYYUUD	Pos PowerQuant	Pos PowerQuant
BJ4RTY	Pos	Pos
BP2CLU	NT	
CEYEF7	Pos Seratec HemDirect	Pos Seratec HemDirect
E9BF8W	Pos Casework Direct	Pos Casework Direct
EPD4D3	Pos PowerQuant, HemaTrace	Pos PowerQuant
F2F7WW	Pos Quant Trio, HemaTrace	Pos Quant Trio, HemaTrace
FFHHK9	Pos PowerQuant	Pos PowerQuant
FGAL8N		Pos HemaTrace
FGUEXZ	Pos HemaTrace, Quant TRIO	Pos HemaTrace, Quant TRIO
FMLEHM	Pos Quantifiler DUO	Pos Quantifiler DUO
FTMQEK	Pos HemaTrace	Pos HemaTrace
G8ZMPY	Pos RSID	Pos RSID



TABLE 1d

WebCode	Human Origin Screening Results	
	Item 3	Item 4
GEPZ6T	Pos Quantifiler Trio	Pos Quantifiler Trio
GKVQJT	Pos Quant	Pos Quant
GQTJBY	Pos Seratec HemDirect	Pos Seratec HemDirect
H9A22Y	Pos PowerQuant	Pos PowerQuant
H9E9ET	Pos	Pos
KJAYBK	Pos	Pos
KMAA8J	Pos Y-Screening	Pos Y-Screening
L3TQ9T	Pos PPF/Y23	Pos PPF/Y23
L9NGTW	Pos HemDirect, Quant Trio	Pos HemDirect, Quant Trio
M9XMRT	Pos HemDirect	Pos HemDirect
MMFKML	Pos Quant	Pos Quant
N2C3CK	Pos HemDirect	NT
NVBB39	Pos HemaTrace	Pos HemaTrace, RSID-Semen, Micro
PFTE3K	Pos HemDirect	NT
PQNRWP	Pos HemaTrace	NT
QAHUHK	Pos Y Screening	Pos Y Screening
QBDCJL	Pos	Pos
QJR4AJ	Pos Quantifiler Trio	Pos Quantifiler Trio
R8MJXG	Pos	NT
R96LRW	Pos RSID Blood	Pos RSID Blood
RJHVAV	Pos PowerQuant	Pos PowerQuant
RWQK4Q	Pos HemDirect	Pos HemDirect
T37NLC	Pos HEXAGON OBTI	HEXAGON OBTI
T6FJEW	Pos PowerQuant	Pos PowerQuant
TQWYWN	Pos PowerQuant, HemaTrace	Pos PowerQuant
TW9Z2R	Pos PowerQuant	Pos PowerQuant
TYCHCG	Pos Hemdirect	NT
TZMK3L	Pos Powerquant	Pos Powerquant
UKC24U	Pos PowerQuant	Pos PowerQuant
V4HTLM	Pos Powerquant	Pos Powerquant
VRLZYG	Pos	Pos
XBNPPH	Pos Quant Trio	Pos Quant Trio
XLCHF8	Pos Y-screening	Pos Y-Screening
XVXFCD	Pos HemaTrace	Pos HemaTrace
XWUZ9D	Pos	Pos

TABLE 1d

WebCode	Human Origin Screening Results	
	Item 3	Item 4
YLMUKP	Pos PowerQuant	Pos PowerQuant
YQ28PH	Pos HemaTrace, PowerQuant	Pos PowerQuant
YVRU6N	Pos RSID	Pos RSID

Table 1d: Serology Screening Response Summary - Human Origin			Participants: 71
This table excludes participants who did not report or reported "Not Tested" for both Item 3 and Item 4.			
	Item 3	Item 4	
Positive	<b>69</b>	<b>64</b>	
Negative	<b>0</b>	<b>0</b>	
Inconclusive	<b>0</b>	<b>0</b>	
Not Tested (NT)	<b>1</b>	<b>5</b>	
Not Reported	<b>1</b>	<b>2</b>	

# Serology Screening Results

Indicate the results of any screening tests performed on the questioned stains (Items 3 & 4).

TABLE 1e

WebCode	Y Screening Results	
	Item 3	Item 4
3RWD4D	Pos Quantifiler Trio	Pos QuantifilerTrio
49MC7Y	Pos NaOH male screen	Pos NaOH male screen
4T9DTK	Pos Y screen + Quant Trio	Pos Y screen + Quant Trio
6C2F82	Pos Quant Trio	Pos Quant Trio
6YARC2	Pos Quant Trio	Pos Quant Trio
8HG27H	Pos Qiagen Investigator™ Quantiplex	Pos Qiagen Investigator™ Quantiplex
8WKDN3	Pos CWD	Pos CWD
9GJ2T4	Pos Y-Screening	Pos Y-Screening
9LVNPU	Pos NaOH Screen	Pos NaOH Screen
9PVZKU	Pos NaOH\Trio	Pos NaOH\Trio
A7TXK3	Pos Quant Trio	Pos Quant Trio
AFKBZU	Pos	Pos
AYYUUD	Pos PowerQuant	Pos PowerQuant
BJ4RTY	Pos	Pos
BP2CLU	Pos Quantiplex HYres	Pos Quantiplex HYres
C6E2HV	Pos Quantifiler Trio	Pos Quantifiler Trio
CEYEF7	Pos Quant Trio	Pos Quant Trio
CGNR8P	Pos NaOH Y Screen	Pos NaOH Y Screen
D77BEH	Pos NaOH	Pos NaOH
E33YVM	Pos NaOH	Pos NaOH
E9BF8W	Pos Casework Direct	Pos Casework Direct
F2F7WW	Pos Quant Trio	Pos Quant Trio
FGUEXZ	Pos Quant TRIO	Pos Quant TRIO
FMLEHM	Pos Quantifiler DUO	Pos Quantifiler DUO
G2H7MP	Pos Quant Trio	Pos Quant Trio
GDBMCP	Pos TRIO	Pos TRIO
GKVQJT	Pos Quant	Pos Quant
GM3W8E	Pos NaOH Y screen	Pos NaOH Y screen
H9E9ET	Pos	Pos
JEXVKH	Pos NaOH	Pos NaOH
K27KGJ	Pos	Pos
KJAYBK	Pos	Pos
KMAA8J	Pos Y-Screening	Pos Y-Screening
L3TQ9T	Pos Y23/Amelogenin	Pos Y23/Amelogenin
LEPH7K	Pos Quant Trio	Pos Quant Trio

TABLE 1e

WebCode	Y Screening Results	
	Item 3	Item 4
LGUFBL	Pos NaOH Lysis	Pos NaOH Lysis
MHLP4M	NT	Pos Quant trio
MMFKML	Pos Quant	Pos Quant
NAE6MC	Pos Promega Casework Direct Kit	Pos Promega Casework Direct Kit
P2E3X7	Pos NaOH screen	Pos NaOH Screen
Q4RFKD	Pos	Pos
QAHLNE	Pos Quant Trio	Pos Quant Trio
QAHUHK	Pos Y Screening	Pos Y Screening
QBDCJL	Pos	Pos
QFN9LA	Pos Promega Casework Direct	NT
RP7H3F	Pos TRIO	Pos TRIO
RPQ24F	NT	Pos NaOH lysis
RVWTCD	Pos TRIO	Pos TRIO
RWQK4Q	Pos Quant Trio	Pos Quant Trio
TUL294	Pos NaOH screen	Pos NaOH screen
TW9Z2R	Pos PowerQuant	Pos PowerQuant
VRLZYG	Pos	Pos
XBNPPH	Pos Quant Trio	Pos Quant Trio
XKDC28	Pos	Pos
XLCHF8	Pos Y-screening	Pos Y-Screening
XWUZ9D	Pos	Pos
ZK7WTP	NT	Pos
ZNMBB4	Pos	Pos

**Table 1e: Serology Screening Response Summary - Y Screening**Participants: **58**

This table excludes participants who did not report or reported "Not Tested" for both Item 3 and Item 4.

	Item 3	Item 4
Positive	<b>55</b>	<b>57</b>
Negative	<b>0</b>	<b>0</b>
Inconclusive	<b>0</b>	<b>0</b>
Not Tested (NT)	<b>3</b>	<b>1</b>
Not Reported	<b>0</b>	<b>0</b>

# Serology Screening Results

Indicate the results of any screening tests performed on the questioned stains (Items 3 & 4).

TABLE 1f

WebCode	Other Screening Results	
	Item 3	Item 4
3GGG62	Pos ALS	Neg ALS
8HG27H		Sperm cells Pos Manual Microscopy and Metasystems Metafer + Sperm finder DNN (Deep Neural Network algorithm)
9JQFYA		Amylase Diffusion Neg Amylase Diffusion plate
9YYBEC	Menstrual Blood Neg Seratec PMB	Menstrual Blood Neg Seratec PMB
JPXHK2	Visual examination Neg ALS	Visual examination Neg ALS
MG88YV	Visual exam Neg ALS	Visual exam Neg ALS
UX9LYN		Semen Neg ALS

# STR Amplification Kit(s) & Results

## TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

### Item 1 - STR Results

22TQ4E	GlobalFiler™ Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
<hr/>						
243KYE	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
<hr/>						
2D3EMC	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
<hr/>						
2EWYYB	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
<hr/>						
2FD9WJ	PowerPlex® Fusion 6C Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
<hr/>						
2HHXYR	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

2L99VJ	PowerPlex® Fusion					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14		9.3,9.3	8,8
	14,14	--				
2N6LVH	PowerPlex® Fusion 6C Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
2QB3ZF	PowerPlex® 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12^	29.2,30.2	9.3	8
	14	NR	NR	NR		
2QB99M	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
2R6WRH	PowerPlex® Fusion 6C Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
2RNMRP	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
2XN7TZ	GlobalFiler™ Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

3BRW47	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
3GGG62	NGM SElect					
	11,15	20,23	14,14	15,15		
1		10,13	13,14	18,18		12,13
	16,18	11,14	28,32.2	15,15	X,X	
	19,19			29.2,30.2	9.3,9.3	
	14,14					
3JPK4J	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
3KJ7WA	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
3N2JL4	PowerPlex® Fusion 5C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14		9.3	8
	14					
3Q3PKH	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
3RWD4D	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

3WCRZK	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
43E3RB	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
44CJVZ	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
487EJZ	PowerPlex® ESI 17 Fast					
	11,15	20,23	14,14	15,15		
1		10,13	13,14	18,18		12,13
	16,18	11,14	28,32.2	15,15	X,X	
	19,19			29.2,30.2	9.3,9.3	
	14,14					
49MC7Y	GlobalFiler™ (STRmix)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14	NR			NR	
4AGZNU	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
4C3HQR	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

4E2J7A	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	
4EUZLL	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
4H2U3A	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	N/R			N/R	
4M8RBJ	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X,X	12
	19			29.2,30.2	9.3	8
	14					
4MAK87	GlobalFiler™ (STRmix v2.6)					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
4MG9YG	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
4NCR2H	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

4P9CLW	Identifiler®					
		20,23		15,15	11,12	
1		10,11	10,13		10,11	12,13
		16,18	11,14	28,32.2	X,X	12,12
		19,19			9.3,9.3	8,8
		14,14				
4T9DTK	GlobalFiler™					
		11,15	20,23	14	15	11,12
1		10,11	10,13	13,14	18	10,11
		16,18	11,14	28,32.2	15	X
		19		29.2,30.2	9.3	8
		14	---		---	
4TA2FQ	GlobalFiler™					
		11,15	20,23	14	15	11,12
1		10,11	10,13	13,14	18	10,11
		16,18	11,14	28,32.2	15	X
		19		29.2,30.2	9.3	8
		14				
4TQC2C	GlobalFiler™					
		11,15	20,23	14	15	11,12
1		10,11	10,13	13,14	18	10,11
		16,18	11,14	28,32.2	15	X
		19		29.2,30.2	9.3	8
		14				
4U3V3A	GlobalFiler™					
		11,15	20,23	14,14	15,15	11,12
1		10,11	10,13	13,14	18,18	10,11
		16,18	11,14	28,32.2	15,15	X,X
		19,19	NT	NT	29.2,30.2	9.3,9.3
		14,14	NR	NT	NT	NR
4VEUCA	GlobalFiler™ Direct					
		11,15	20,23	14	15	11,12
1		10,11	10,13	13,14	18	10,11
		16,18	11,14	28,32.2	15	X
		19		29.2,30.2	9.3	8
		14				
62JTKE	GlobalFiler™ (STRmix)					
		11,15	20,23	14,14	15,15	11,12
1		10,11	10,13	13,14	18,18	10,11
		16,18	11,14	28,32.2	15,15	X,X
		19,19		29.2,30.2	9.3,9.3	8,8
		14,14	NR		NR	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

66YDXU	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	-
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X,X	12
	19	-	-	29.2,30.2	9.3	8
	14	NM	-	-	NM	
688GWC	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
69K6JW	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
6C2F82	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
6DCF7F	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
6DE24G	PowerPlex® 21					
	11,15	20,23		15,15	11,12	12,19
1	10,11	10,13		18,18	10,11	12,13
	16,18	11,14	28,32.2		X,X	12,12
	19,19	10,13	12,14		9.3,9.3	8,8
	14,14					
6J3NYM	PowerPlex® Fusion 6C Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

6M3W6H	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X,X	12
	19			29.2,30.2	9.3	8
	14					
6NVNE4	PowerPlex® Fusion 5C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14		9.3	8
	14					
6V9TTV	Identifiler® Direct					
		20,23		15	11,12	
1	10,11	10,13			10,11	12,13
	16,18	11,14	28,32.2		X,X	12
	19				9.3	8
	14					
6YARC2	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
76ZETR	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
78HQEB	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14	NR	NR	NR		
78LFBL	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

7MYR2T	ANDE FlexPlex					
	11,15	20,23	14	15	11,12	12,19
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19		12,14	29.2,30.2	9.3	8
	14	NID	NID	NID		
7V99M8	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
7VNCCT	Identifiler® Direct					
		20,23		15	11,12	
1	10,11	10,13			10,11	12,13
	16,18	11,14	28,32.2		X,X	12
	19				9.3	8
	14					
7YPLDM	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3	8,8
	14,14					
834PGB	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
84EEX2	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
86EK89	GlobalFiler™ Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

8EWZAB	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	
8HG27H	PowerPlex® ESX 17 Fast System					
	11,15	20,23	14,14	15,15		
1	10,11	10,13	13,14	18,18		12,13
	16,18	11,14	28,32.2	15,15	X,X	
	19,19			29.2,30.2	9.3,9.3	
	14,14					
8NPD8P	GlobalFiler™ (STRmix)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
8V3HQA	PowerPlex®, ESI 17					
	11,15	20,23	14,14	15,15		
1	10,11	10,13	13,14	18,18		12,13
	16,18	11,14	28,32.2	15,15	X,X	
	19,19			29.2,30.2	9.3,9.3	
	14,14					
8YHT3R	PowerPlex® ESI-17					
	11,15	20,23	14,14	15,15		
1	10,11	10,13	13,14	18,18		12,13
	16,18	11,14	28,32.2	15,15	X,X	
	19,19			29.2,30.2	9.3,9.3	
	14,14					
93KUWN	GlobalFiler™ (STRmix)					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	
93ZBU2	GlobalFiler™ (STRmix)					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

97E6FZ	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
9AULN6	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	
9CQWYZ	GlobalFiler™ (STRmix)					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
9JQFYA	Investigator® 24plex QS					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14	-				
9K3ZZ8	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
9LVNPU	GlobalFiler™ (STRmix)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14	NR			NR	
9NKDN2	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14	No Results			No Results	



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

9PVZKU	GlobalFiler™ (STRmix v2.6.2)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14	NR			NR	
9YYBEC	PowerPlex® Fusion 6C, GlobalFiler™, NGM Detect					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14	-	-	-	-	
9ZA76B	GlobalFiler™ Express (STRmix)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
9ZJTWQ	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	
A3WB78	GlobalFiler™ Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
A4N6WV	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
A6MAMQ	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

A7TXK3	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	NT
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	NT	NT	29.2,30.2	9.3,9.3	8,8
	14,14	NR	NT	NT	NR	
A97GY7	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
A9G82V	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14	No Result			No Result	
ALRLEF	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
ANECAT	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
AYYUUD	Identifiler® Plus, PowerPlex® Fusion 6C, MiniFiler					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
AZM4Q8	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

B24JWL	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14	NR			NR	
B4H92Q	Investigator® 24plex QS (STRmix)					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
B7A8JV	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	No results			No results	
B8AB4X	GlobalFiler™ (STRmix)					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
BAC8FL	PowerPlex® Fusion 5C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14		9.3	8
	14	NR				
BHKVEE	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14	NR			NR	
BMLR9F	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

BNEHHZ	GlobalFiler™ (STRmix)					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
BNUXGA	Essplex SE QS (Gene Mapper ID-X v 1.2)					
	11,15	20,23	14,14	15,15		
1		10,13	13,14	18,18		12,13
	16,18	11,14	28,32.2	15,15	X,X	
	19,19			29.2,30.2	9.3,9.3	
	14,14					
BP2CLU	GlobalFiler™ (TrueAllele)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
BRT7PQ	Identifiler® Plus					
		20,23		15,15	11,12	
1	10,11	10,13			10,11	12,13
	16,18	11,14	28,32.2		X,X	12,12
	19,19				9.3,9.3	8,8
	14,14					
BRTHBK	GlobalFiler™ Express					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
BUL9K7	GlobalFiler™ Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
BV7CY6	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14	NR	NR	NR		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

BVC82P	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
BWRQLM	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
C6E2HV	Investigator® 24plex QS					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
CEYEF7	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X,X	12
	19			29.2,30.2	9.3	8
	14					
CGACTN	GlobalFiler™ Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
CGNR8P	GlobalFiler™ Express (STRmix)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14	NR			NR	
CV97FP	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

D2VECU	PowerPlex® Fusion 5C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14		9.3	8
	14					
D77BEH	GlobalFiler™ (STRmix)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14	NR			NR	
D9TXJQ	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	
DA8BEE	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
DCCYVQ	Investigator® 24plex GO! (TrueAllele)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X,X	12
	19			29.2,30.2	9.3	8
	14	no result				
DGKM87	PowerPlex® Fusion 6C Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
DJCJXL	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

DN4T4D	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
DPY9HV	GlobalFiler™ (STRMIX)					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
DQPGHY	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
DUDV79	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
DY2M7P	GlobalFiler™ (Strmix)					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
DY3N29	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
E33YVM	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14	NR			NR	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

E34P4Q	Investigator® 24plex GO!					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
E3VZ86	Identifiler® Direct					
		20,23		15,15	11,12	
1	10,11	10,13			10,11	12,13
	16,18	11,14	28,32.2		X,X	12,12
	19,19				9.3,9.3	8,8
	14,14					
E6PKK4	GlobalFiler™ (STRmix)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
ECP2VA	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
EKKMRG	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X,X	12
	19			29.2,30.2	9.3	8
	14	0			0	
ENGVYQ	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	no result			no result	
EPD4D3	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

ETBPZY	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
EXBPLP	GlobalFiler™ (STRmix)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X,X	12
	19			29.2,30.2	9.3	8
	14					
F2F7WW	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	
FAXC2G	PowerPlex® Fusion 5C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14		9.3	8
	14	NR				
FAZ46H	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
FDVN2M	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
FEAD6Y	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

FEVX3J	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
FFHHK9	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
FGAL8N	Identifiler® Plus					
		20,23		15,15	11,12	
1	10,11	10,13			10,11	12,13
	16,18	11,14	28,32.2		X,X	12,12
	19,19				9.3,9.3	8,8
	14,14					
FGUEXZ	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	NT
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	NT	NT	29.2,30.2	9.3,9.3	8,8
	14,14	NR	NT	NT	NR	
FMLEHM	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14	-	-	-		
FMY4LZ	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
FQ86Z6	PowerPlex® Fusion 6C Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

FQMLXJ	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
FT6UUX	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
FTMQEK	GlobalFiler™ Express					
	11,15	20,23	14,14	15,15	11,12	-
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	-	-	29.2,30.2	9.3,9.3	8,8
	14,14	-	-	-	-	
FVXCLY	GlobalFiler™ Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
FYFYTC	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
G2H7MP	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
G3CU6K	GlobalFiler™ Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

G6FRAL	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
G8ZMPY	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X,X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
GDBMCP	Investigator® 24plex QS					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
GKVQJT	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
GM29JA	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	
GM3W8E	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14	NR			NR	
GQTJBY	GlobalFiler™ (Bullet Proof Sentry)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X,X	12
	19			29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

GQYLDZ	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	
GXZNTT	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
GYHNXA	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
H2NYP3	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
H4JEMT	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
H8MDRJ	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
H8Y9YJ	GlobalFiler™ (GeneMapper ID-X 1.5)					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

H9A22Y	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
H9E37K	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	-			-	
HG9BNQ	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
HJEVCQ	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
HPG2RU	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X,X	12
	19			29.2,30.2	9.3	8
	14	NM			NM	
HPZNNQ	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	no results			no results	
HRQ3W2	GlobalFiler™ (STRmix)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

HTJXJA	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
HUEGKB	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
HUTQRQ	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	No Results			No Results	
HXR4DU	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X,X	12
	19			29.2,30.2	9.3	8
	14	NM			NM	
J7HB7K	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
JA4YXC	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
JCN3FH	Identifiler® Plus					
		20,23		15,15	11,12	
1	10,11	10,13			10,11	12,13
	16,18	11,14	28,32.2		X,X	12,12
	19,19				9.3,9.3	8,8
	14,14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

JEXVKH	GlobalFiler™ Express (STRmix)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14	NR			NR	
JHGVMR	GlobalFiler™ Express (STRmix)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14	-			-	
JKXJ8	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
JNMM8A	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14	na	na	na		
JPXHK2	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
JRL3HJ	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	
JWFR9X	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

K27KGJ	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
K6T7MD	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
K8CA74	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
KEUHQU	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
KFNBJR	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
KFQ9KF	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14	NID	NID	NID		
KR47R6	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

KTBHGT	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X,X	12
	19			29.2,30.2	9.3	8
	14	NM			NM	
KYLH66	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
L29GW9	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
L3TQ9T	PowerPlex® 5C					
	11,15	20,23	14	15	11,12	--
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	--	9.3	8
	14	--	--	--	--	
L4ATAZ	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
L9NGTW	GlobalFiler™ (STR Mix)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X,X	12
	19			29.2,30.2	9.3	8
	14	NR			NR	
LDFFDU	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

LEPH7K	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
LGUFBL	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
LJZQBV	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
LKX4XN	GlobalFiler™ (STRmix)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
LMRJVE	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
LP88ZJ	PowerPlex® Fusion 5C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14		9.3	8
	14	NT				
LPRWCC	GlobalFiler™ (STRmix)					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

LQ7DBC	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
LU3867	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
LZNZ4Y	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	No Results			No Results	
M6H8AE	Identifiler® Plus					
		20,23		15,15	11,12	
1	10,11	10,13			10,11	12,13
	16,18	11,14	28,32.2		X,X	12,12
	19,19				9.3,9.3	8,8
	14,14					
M6YEFW	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
M8MT47	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
M9XMRT	PowerPlex® ESI 16 FAST SYSTEM					
	11,15	20,23	14	15		
1		10,13	13,14	18		12,13
	16,18	11,14	28,32.2	15	X	
	19				9.3	
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

MB438C	Identifiler® Direct					
		20,23		15	11,12	
1	10,11	10,13			10,11	12,13
	16,18	11,14	28,32.2		X,X	12
	19				9.3	8
	14					
MBL6Z7	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
MG88YV	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
MHLP4M	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
MMFKML	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
MP2CUH	PowerPlex® Fusion 5C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14		9.3	8
	14					
MV87ND	Identifiler® Plus					
		20,23		15,15	11,12	
1	10,11	10,13			10,11	12,13
	16,18	11,14	28,32.2		X,X	12,12
	19,19				9.3,9.3	8,8
	14,14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

MZ3QYP	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
N2C3CK	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
N3QLY3	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
NCEHZ4	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
NGBYKB	GlobalFiler™ (STRmix v2.5)					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	
NKPL9N	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
NNRHUC	GlobalFiler™ Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

NVBB39	PowerPlex® 21					
	11,15	20,23		15,15	11,12	12,19
1	10,11	10,13		18,18	10,11	12,13
	16,18	11,14	28,32.2		X,X	12,12
	19,19	10,13	12,14		9.3,9.3	8,8
	14,14					
P2E3X7	GlobalFiler™ Express (STRmix)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14	NR			NR	
P4FE9C	GlobalFiler™ Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8p
	14					
PA89VD	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
PBJC3A	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14	NID	NID	NID		
PC8PKT	GlobalFiler™ (STRmix)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
PFTE3K	GlobalFiler™ Express					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

PLA2MN	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	no results			no results	
PQNRWP	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
PVL63M	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
PZHNBD	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	
Q4RFKD	PowerPlex® Fusion 6C (Bulletproof Sentry)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
Q6MYQK	homemade multiplex					
	11,15		14,14	15,15		
1		10,13	13,14	18,18		12,13
	16,18		28,32.2	15,15	X,X	
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
Q7HMY9	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

Q7KALN	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
Q9ALD7	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
QAE79T	Identifiler® Direct					
		20,23		15,15	11,12	
1	10,11	10,13			10,11	12,13
	16,18	11,14	28,32.2		X,X	12,12
	19,19				9.3,9.3	8,8
	14,14					
QAHLNE	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
QFN9LA	FlexPlex					
	11,15	20,23	14	15	11,12	12,19
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19		12,14	29.2,30.2	9.3	8
	14					
QFTPK9	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	
QHUQMQ	GlobalFiler™ Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

QKZFPZ	PowerPlex® Fusion 6C Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
QPCBJC	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
QR2TMH	GlobalFiler™ (STRmix)					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
QWVC4V	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
QYU4HL	GlobalFiler™ (STRmix)					
	11,15	20,23	14,14	15,15	11,12	N/T
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	N/T	N/T	29.2,30.2	9.3,9.3	8,8
	14,14	N/R	N/T	N/T	N/R	
R96LRW	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
RB6QD4	PowerPlex® Fusion 5C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14		9.3	8
	14	NR				

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

RBRYV9	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
RJHVAV	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
RKFWKT	PowerPlex® Fusion 6C Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
RNVHX9	PowerPlex® Fusion 5C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14		9.3	8
	14	NR				
RP7H3F	Investigator® 24plex QS					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
RPQ24F	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
RVWTCD	Investigator® 24plex QS					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

RWQK4Q	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X,X	12
	19			29.2,30.2	9.3	8
	14					
RWWJR9	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14	NID	NID	NID		
RX6RY8	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
RZNZVL	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
RZRHXQ	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
T37NLC	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
T43YLL	PowerPlex® Fusion 5C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14		9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

T4RYW7	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
T6FJEW	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
T78M2B	Identifiler® Plus					
		20,23		15,15	11,12	
1	10,11	10,13			10,11	12,13
	16,18	11,14	28,32.2		X,X	12,12
	19,19				9.3,9.3	8,8
	14,14					
TBNWA9	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
TE4H3F	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
TFHVX6	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
TJT4P9	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

TMHEVU	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
TMJ48D	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
TMTDV6	Identifiler®, Investigator® 24plex QS & GO!					
	11,15	20,23	14,14	15,15	11,12	N/A
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	N/A	N/A	29.2,30.2	9.3,9.3	8,8
	14,14	N/A	N/A	N/A	N/A	
TNQMR8	Identifiler® Direct					
		20,23		15	11,12	
1	10,11	10,13			10,11	12,13
	16,18	11,14	28,32.2		X,X	12
	19				9.3	8
	14					
TNURZQ	PowerPlex® Fusion 6C Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
TPK7XE	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	No results			No results	
TQWYWN	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

TUKDKX	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	
TUL294	GlobalFiler™ Express (STRmix)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14	NR			NR	
TW9Z2R	Identifiler® Plus, PowerPlex® Fusion 6C, MiniFiler					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
TXYLR	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
TYCHCG	GlobalFiler™ Express					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
TZMK3L	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
U28XVN	GlobalFiler™ Express (STRmix)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

U42G8M	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
UBZ4VG	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
UEZC4X	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
UFCUFB	PowerPlex® Fusion 5C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14		9.3	8
	14	NT				
UKC24U	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
UUFBBJ	GlobalFiler™ Express (STRmix)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14	-			-	
UVRWZK	Investigator® 24plex (STRmix)					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

UX9LYN	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
V3LJ8B	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	No Results			No Results	
V4HTLM	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
V4JQWH	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
VDM3QQ	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
VGPU84	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
VJAQMG	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

VJTPNL	GlobalFiler™ Direct (STRmix v.2.8)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
VKKR9F	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
VXARXX	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
VZF29F	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
W26VB3	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	
W9DZNV	PowerPlex® Fusion 6C Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
WAJHNC	GlobalFiler™ (STRmix)					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

WBDCZM	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
WGH4C7	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	
WNJEM6	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
WRGRGG	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
WTW2HU	PowerPlex® Fusion 6C Direct					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
X2FXLE	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	
X6G8KN	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

X9KTNM	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
XAFCKM	Identifiler® Plus					
		20,23		15,15	11,12	
1	10,11	10,13			10,11	12,13
	16,18	11,14	28,32.2		X,X	12,12
	19,19				9.3,9.3	8,8
	14,14					
XAG4LC	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
XBNPPH	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	
XCWVBJ	ESI-17 FAST					
	11,15	20,23	14,14	15,15		
1		10,13	13,14	18,18		12,13
	16,18	11,14	28,32.2	15,15	X,X	
	19,19			29.2,30.2	9.3,9.3	
	14,14					
XDFNFM	PowerPlex® 21					
	11,15	20,23		15,15	11,12	12,19
1	10,11	10,13		18,18	10,11	12,13
	16,18	11,14	28,32.2		X,X	12,12
	19,19	10,13	12,14		9.3,9.3	8,8
	14,14					
XGV3ZM	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

XH9JBF	GlobalFiler™ Express					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X,X	12
	19			29.2,30.2	9.3	8
	14	NM			NM	
XKDC28	PowerPlex® 6C (BP Sentry)					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
XKZNWZ	GlobalFiler™ (STRmix)					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14	NR			NR	
XL9ZD2	FlexPlex					
	11,15	20,23	NID	NID	11,12	NID
1	10,11	10,13	13,14	NID	NID	12,13
	16,18	11,14	28,32.2	NID	NID	NID
	NID		12,14	NID	9.3	NID
	14	NID				
XLTE7K	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
XTQ8CU	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
XVXFCD	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

XYZAEP	PowerPlex® Fusion 6C					
		11,15	20,23	14	15	11,12
	1	10,11	10,13	13,14	18	10,11 12,13
		16,18	11,14	28,32.2	15	X 12
		19	10,13	12,14	29.2,30.2	9.3 8
	14					
Y8NMTE	GlobalFiler™ Express (STRmix™)					
		11,15	20,23	14	15	11,12
	1	10,11	10,13	13,14	18	10,11 12,13
		16,18	11,14	28,32.2	15	X 12
		19			29.2,30.2	9.3 8
	14	-			-	
YAQPB4	GlobalFiler™					
		11,15	20,23	14,14	15,15	11,12
	1	10,11	10,13	13,14	18,18	10,11 12,13
		16,18	11,14	28,32.2	15,15	X,X 12,12
		19,19			29.2,30.2	9.3,9.3 8,8
	14,14	NR			NR	
YBMYPE	GlobalFiler™ Express (STRmix)					
		11,15	20,23	14	15	11,12
	1	10,11	10,13	13,14	18	10,11 12,13
		16,18	11,14	28,32.2	15	X 12
		19			29.2,30.2	9.3 8
	14	-			-	
YFFACY	Identifiler®, Investigator® 24plex QS					
		11,15	20,23	14,14	15,15	11,12 N/A
	1	10,11	10,13	13,14	18,18	10,11 12,13
		16,18	11,14	28,32.2	15,15	X,X 12,12
		19,19	N/A	N/A	29.2,30.2	9.3,9.3 8,8
	14,14	N/A	N/A	N/A	N/A	
YLMUKP	PowerPlex® Fusion 6C					
		11,15	20,23	14,14	15,15	11,12
	1	10,11	10,13	13,14	18,18	10,11 12,13
		16,18	11,14	28,32.2	15,15	X,X 12,12
		19,19	10,13	12,14	29.2,30.2	9.3,9.3 8,8
	14,14					
YQ28PH	PowerPlex® Fusion 6C					
		11,15	20,23	14,14	15,15	11,12
	1	10,11	10,13	13,14	18,18	10,11 12,13
		16,18	11,14	28,32.2	15,15	X,X 12,12
		19,19	10,13	12,14	29.2,30.2	9.3,9.3 8,8
	14,14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

YUKCBY	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
YVRU6N	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
YXGW4X	PowerPlex® Fusion 5C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14		9.3	8
	14	NR				
YXXYXC	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
Z3RFNC	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
Z7PYNP	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19			29.2,30.2	9.3	8
	14					
Z9W9UZ	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14	NR	NR	NR		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

ZBG79H	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
ZBZ2QK	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14	NR	NR	NR		
ZD4UHX	Investigator® 24plex QS, GO!					
	11,15	20,23	14,14	15,15	11,12	N/A
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	N/A	N/A	29.2,30.2	9.3,9.3	8,8
	14,14	N/A	N/A	N/A	N/A	
ZK7WTP	Investigator® 24plex					
	11,15	20,23	14,14	15,15	11,12	
1	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
ZNMBB4	PowerPlex® Fusion 6C					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X	12
	19	10,13	12,14	29.2,30.2	9.3	8
	14					
ZVJBGJ	GlobalFiler™					
	11,15	20,23	14	15	11,12	
1	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X,X	12
	19			29.2,30.2	9.3	8
	14					



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

22TQ4E	GlobalFiler™ Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
243KYE	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
2D3EMC	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
2EWWYB	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11				
2FD9WJ	PowerPlex® Fusion 6C Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
2HHXYR	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		
2L99VJ	PowerPlex® Fusion					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14		7,9.3	8,8
	15,17	11				

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

2N6LVH	PowerPlex® Fusion 6C Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
2QB3ZF	PowerPlex® 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
2QB99M	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
2R6WRH	PowerPlex® Fusion 6C Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
2RNMRP	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
2XN7TZ	GlobalFiler™ Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
3BRW47	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

3GGG62	NGM SElect					
	16.3,18.3	19,19	11,11	16,17		
2		14,15	13,18	19,22		9,12
	15,17	12,16.2	29,30	10,16	X,Y	
	20,22			20,23.2	7,9.3	
	15,17					
3JPK4J	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
3KJ7WA	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11				
3N2JL4	PowerPlex® Fusion 5C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14		7,9.3	8
	15,17	11				
3Q3PKH	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
3RWD4D	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
3WCRZK	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

43E3RB	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
44CJVZ	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		
487EJZ	PowerPlex® ESI 17 Fast					
	16.3,18.3	19,19	11,11	16,17		
2		14,15	13,18	19,22		9,12
	15,17	12,26.2	29,30	10,16	X,Y	
	20,22			20,23.2	7,9.3	
	15,17					
49MC7Y	GlobalFiler™ (STRmix)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
4AGZNU	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
4C3HQR	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
4E2J7A	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

4EUZLL	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
4H2U3A	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
4M8RBJ	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
4MAK87	GlobalFiler™ (STRmix v2.6)					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
4MG9YG	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		
4NCR2H	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
4P9CLW	Identifiler® Plus					
		19,19		16,17	12,12	
2	8,10	14,15			11,13	9,12
	15,17	12,16.2	29,30		X,Y	10,12
	20,22				7,9.3	8,8
	15,17					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

4T9DTK	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
4TA2FQ	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
4TQC2C	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
4U3V3A	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	NT
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	NT	NT	20,23.2	7,9.3	8,8
	15,17	11	NT	NT	2	
4VEUCA	GlobalFiler™ Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
62JTKE	GlobalFiler™ (STRmix)					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
66YDXU	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	-
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	-	-	20,23.2	7,9.3	8
	15,17	11	-	-	2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

688GWC	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		
69K6JW	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
6C2F82	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
6DCF7F	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
6DE24G	PowerPlex® 21					
	16.3,18.3	19,19		16,17	12,12	17,20
2	8,10	14,15		19,22	11,13	9,12
	15,17	12,16.2	29,30		X,Y	10,12
	20,22	9,13	13,14		7,9.3	8,8
	15,17					
6J3NYM	PowerPlex® Fusion 6C Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
6M3W6H	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

6NVNE4	PowerPlex® Fusion 5C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14		7,9.3	8
	15,17	11				
6V9TTV	Identifiler® Direct					
		19		16,17	12	
2	8,10	14,15			11,13	9,12
	15,17	12,16.2	29,30		X,Y	10,12
	20,22				7,9.3	8
	15,17					
6YARC2	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
76ZETR	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
78HQEB	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
78LFBL	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
7MYR2T	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

7V99M8	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
7VNCCT	Identifiler® Direct					
		19		16,17	12	
2	8,10	14,15			11,13	9,12
	15,17	12,16.2	29,30		X,Y	10,12
	20,22				7,9.3	8
	15,17					
7YPLDM	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		
834PGB	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
84EEX2	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
86EK89	GlobalFiler™ Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
8EWZAB	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

8HG27H	PowerPlex® ESX 17 Fast System					
	16.3,18.3	19,19	11,11	16,17		
2		14,15	13,18	19,22		9,12
	15,17	12,16.2	29,30	10,16	X,Y	
	20,22			20,23.2	7,9.3	
	15,17					
8NPD8P	GlobalFiler™ (STRmix)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
8V3HQA	PowerPlex®, ESI-17					
	16.3,18.3	19,19	11,11	16,17		
2		14,15	13,18	19,22		9,12
	15,17	12,16.2	29,30	10,16	X,Y	
	20,22			20,23.2	7,9.3	
	15,17					
8YHT3R	PowerPlex® ESI-17					
	16.3,18.3	19,19	11,11	16,17		
2		14,15	13,18	19,22		9,12
	15,17	12,16.2	29,30	10,16	X,Y	
	20,22			20,23.2	7,9.3	
	15,17					
93KUWN	GlobalFiler™ (STRmix)					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
93ZBU2	GlobalFiler™ (STRmix)					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
97E6FZ	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

9AULN6	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
9CQWYZ	GlobalFiler™ (STRmix)					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
9JQFYA	Investigator® 24plex QS					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11				
9K3ZZ8	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		
9LVNPU	GlobalFiler™ (STRmix)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
9NKDN2	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
9PVZKU	GlobalFiler™ (STRmix v2.6.2)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

9YYBEC	PowerPlex® Fusion 6C, GlobalFiler™, NGM Detect					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16	2	
9ZA76B	GlobalFiler™ Express (STRmix)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
9ZJTWQ	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
A3WB78	GlobalFiler™ Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
A4N6WV	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
A6MAMQ	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
A7TXK3	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	NT
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	NT	NT	20,23.2	7,9.3	8,8
	15,17	11	NT	NT	2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

A97GY7	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		
A9G82V	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
ALRLEF	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
ANECAT	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
AYYUUD	Identifiler® Plus, PowerPlex® Fusion 6C, MiniFiler					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
AZM4Q8	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
B24JWL	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

B4H92Q	Investigator® 24plex QS (STRmix)					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11				
B7A8JV	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
B8AB4X	GlobalFiler™ (STRmix)					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
BAC8FL	PowerPlex® Fusion 5C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14		7,9.3	8
	15,17	11				
BHKVEE	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
BMLR9F	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
BNEHHZ	GlobalFiler™ (STRmix)					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

BNUXGA	Essplex SE QS (Gene Mapper ID-X v 1.2)					
	16.3,18.3	19,19	11,11	16,17		
2		14,15	13,18	19,22		9,12
	15,17	12,16.2	29,30	10,16	X,Y	
	20,22			20,23.2	7,9.3	
	15,17					
BP2CLU	GlobalFiler™ (TrueAllele)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
BRT7PQ	Identifiler® Plus					
		19,19		16,17	12,12	
2	8,10	14,15			11,13	9,12
	15,17	12,16.2	29,30		X,Y	10,12
	20,22				7,9.3	8,8
	15,17					
BRTHBK	GlobalFiler™ Express					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
BUL9K7	GlobalFiler™ Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
BV7CY6	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
BVC82P	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

BWRQLM	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
C6E2HV	Investigator® 24plex QS					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11				
CEYEF7	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
CGACTN	GlobalFiler™ Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
CGNR8P	GlobalFiler™ (STRmix)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
CV97FP	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
D2VECU	PowerPlex® Fusion 5C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14		7,9.3	8
	15,17	11				



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

D77BEH	GlobalFiler™ (STRmix)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
D9TXJQ	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	[X],Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
DA8BEE	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
DCCYVQ	Investigator® 24plex GO! (TrueAllele)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11				
DGKM87	PowerPlex® Fusion 6C Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
DJCJXL	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
DN4T4D	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

DPY9HV	GlobalFiler™ (STRMIX)					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
DQPGHY	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
DUDV79	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
DY2M7P	GlobalFiler™ (STRmix)					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
DY3N29	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
E33YVM	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
E34P4Q	Investigator® 24plex GO! and QS					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11				

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

E3VZ86	Identifiler® Direct					
		19,19		16,17	12,12	
2	8,10	14,15			11,13	9,12
	15,17	12,16.2	29,30		X,Y	10,12
	20,22				7,9.3	8,8
	15,17					
E6PKK4	GlobalFiler™ (STRmix)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
ECP2VA	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		
EKKMRG	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
ENGVYQ	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
EPD4D3	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		
ETBPZY	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

EXBPLP	GlobalFiler™ (STRmix)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
F2F7WW	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
FAXC2G	PowerPlex® Fusion 5C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14		7,9.3	8
	15,17	11				
FAZ46H	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
FDVN2M	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
FEAD6Y	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
FEVX3J	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

FFHHK9	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		
FGAL8N	Identifiler® Plus					
		19,19		16,17	12,12	
2	8,10	14,15			11,13	9,12
	15,17	12,16.2	29,30		X,Y	10,12
	20,22				7,9.3	8,8
	15,17					
FGUEXZ	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	NT
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	NT	NT	20,23.2	7,9.3	8,8
	15,17	11	NT	NT	2	
FMLEHM	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		
FMY4LZ	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
FQ86Z6	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
FQMLXJ	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

FT6UUX	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
FTMQEK	GlobalFiler™ Express					
	16.3,18.3	19,19	11,11	16,17	12,12	-
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	-	-	20,23.2	7,9.3	8,8
	15,17	11	-	-	2	
FVXCLY	GlobalFiler™ Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
FYFYTC	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
G2H7MP	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
G3CU6K	GlobalFiler™ Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
G6FRAL	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

G8ZMPY	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
GDBMCP	Investigator® 24plex QS					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11				
GKVQJT	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
GM29JA	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
GM3W8E	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
GQTJBY	GlobalFiler™ (Bullet Proof Sentry)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
GQYLDZ	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

GXZNT	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
GYHNXA	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
H2NYP3	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
H4JEMT	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
H8MDRJ	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
H8Y9YJ	GlobalFiler™ (GeneMapper ID-X 1.5)					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
H9A22Y	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

H9E37K	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
HG9BNQ	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
HJEVCQ	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
HPG2RU	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
HPZNNQ	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
HRQ3W2	GlobalFiler™ (STRmix)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
HTJXJA	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

HUEGKB	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
HUTQRQ	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
HXR4DU	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
J7HB7K	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
JA4YXC	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
JCN3FH	Identifiler® Plus					
		19,19		16,17	12,12	
2	8,10	14,15			11,13	9,12
	15,17	12,16.2	29,30		X,Y	10,12
	20,22				7,9.3	8,8
	15,17					
JEXVKH	GlobalFiler™ Express (STRmix)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

JHGVR	GlobalFiler™ (STRmix)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
JKXJ8	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
JNMM8A	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		
JPXHK2	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
JRL3HJ	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
JWFR9X	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
K27KGJ	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

K6T7MD	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
K8CA74	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		
KEUHQU	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
KFNBJR	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
KFQ9KF	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
KR47R6	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
KTBHGT	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

KYLH66	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
L29GW9	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
L3TQ9T	PowerPlex® 5C					
	16.3,18.3	19	11	16,17	12	--
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	--	7,9.3	8
	15,17	11	--	--	--	
L4ATAZ	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
L9NGTW	GlobalFiler™ (STR mix)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
LDFFDU	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
LEPH7K	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

LGUFBL	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
LJZQBV	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
LKX4XN	GlobalFiler™ (STRmix)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
LMRJVE	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
LP88ZJ	PowerPlex® Fusion 5C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14		7,9.3	8
	15,17	11				
LPRWCC	GlobalFiler™ (STRmix)					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
LQ7DBC	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

LU3867	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
LZN24Y	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
M6H8AE	Identifiler® Plus					
		19,19		16,17	12,12	
2	8,10	14,15			11,13	9,12
	15,17	12,16.2	29,30		X,Y	10,12
	20,22				7,9.3	8,8
	15,17					
M6YEFW	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
M8MT47	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
M9XMRT	PowerPlex® ESI 16 FAST SYSTEM					
	16.3,18.3	19	11	16,17		
2		14,15	13,18	19,22		9,12
	15,17	12,16.2	29,30	10,16	X,Y	
	20,22				7,9.3	
	15,17					
MB438C	Identifiler® Direct					
		19		16,17	12	
2	8,10	14,15			11,13	9,12
	15,17	12,16.2	29,30		X,Y	10,12
	20,22				7,9.3	8
	15,17					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

MBL6Z7	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
MG88YV	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
MHLP4M	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
MMFKML	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
MP2CUH	PowerPlex® Fusion 5C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14		7,9.3	8
	15,17	11				
MV87ND	Identifiler® Plus					
		19,19		16,17	12,12	
2	8,10	14,15			11,13	9,12
	15,17	12,16.2	29,30		X,Y	10,12
	20,22				7,9.3	8,8
	15,17					
MZ3QYP	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11				



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

N2C3CK	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
N3QLY3	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
NCEHZ4	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
NGBYKB	GlobalFiler™ (STRmix v2.5)					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
NKPL9N	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11				
NNRHUC	GlobalFiler™ Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
NVBB39	PowerPlex® 21					
	16.3,18.3	19,19		16,17	12,12	17,20
2	8,10	14,15		19,22	11,13	9,12
	15,17	12,16.2	29,30		X,Y	10,12
	20,22	9,13	13,14		7,9.3	8,8
	15,17					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

P2E3X7	GlobalFiler™ (STRmix)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
P4FE9C	GlobalFiler™ Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
PA89VD	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
PBJC3A	FlexPlex					
	16.3,18.3	19	11	16,17	12	17,20
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22		13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
PC8PKT	GlobalFiler™ (STRmix)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
PFTE3K	GlobalFiler™ Express					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
PLA2MN	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

PQNRWP	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
PVL63M	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11				
PZHNBD	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
Q4RFKD	PowerPlex® Fusion 6C (Bulletproof Sentry)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
Q6MYQK	homemade multiplex					
	16.3,18.3		11,11	16,17		
2		14,15	13,18	19,22		9,12
	15,17		29,30	10,16	X,Y	
	20,22			20,23.2	7,9.3	8,8
	15,17					
Q7HMY9	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
Q7KALN	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

Q9ALD7	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
QAE79T	Identifiler® Direct					
		19,19		16,17	12,12	
2	8,10	14,15			11,13	9,12
	15,17	12,16.2	29,30		X,Y	10,12
	20,22				7,9.3	8,8
	15,17					
QAHLNE	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
QFTPK9	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
QHUQMQ	GlobalFiler™ Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
QKZFPZ	PowerPlex® Fusion 6C Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
QPCBJC	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

QR2TMH	GlobalFiler™ (STRmix)					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
QWVC4V	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
QYU4HL	GlobalFiler™ (STRmix)					
	16.3,18.3	19,19	11,11	16,17	12,12	N/T
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	N/T	N/T	20,23.2	7,9.3	8,8
	15,17	11	N/T	N/T	2	
R96LRW	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
RB6QD4	PowerPlex® Fusion 5C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14		7,9.3	8
	15,17	11				
RBRYV9	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
RJHVAV	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

RKFWKT	PowerPlex® Fusion 6C Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
RNVHX9	PowerPlex® Fusion 5C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14		7,9.3	8
	15,17	11				
RP7H3F	Investigator® 24plex QS					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11				
RPQ24F	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
RVWTCB	Investigator® 24plex QS					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11				
RWQK4Q	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
RWWJR9	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

RX6RY8	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
RZNZVL	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
RZRHXQ	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
T37NLC	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
T43YLL	PowerPlex® Fusion 5C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14		7,9.3	8
	15,17	11				
T4RYW7	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
T6FJEW	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

T78M2B	Identifiler® Plus					
		19,19		16,17	12,12	
2	8,10	14,15			11,13	9,12
	15,17	12,16.2	29,30		X,Y	10,12
	20,22				7,9.3	8,8
	15,17					
TBNWA9	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
TE4H3F	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
TFHVX6	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
TJT4P9	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
TMHEVU	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
TMJ48D	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

TMTDV6	Identifiler®, Investigator® 24plex QS & GO!					
	16.3,18.3	19,19	11,11	16,17	12,12	N/A
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	N/A	N/A	20,23.2	7,9.3	8,8
	15,17	11	N/A	N/A	N/A	
TNQMR8	Identifiler® Direct					
		19		16,17	12	
2	8,10	14,15			11,13	9,12
	15,17	12,16.2	29,30		X,Y	10,12
	20,22				7,9.3	8
	15,17					
TNURZQ	PowerPlex® Fusion 6C Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
TPK7XE	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
TQWYWN	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		
TUKDKX	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
TUL294	GlobalFiler™ (STRmix)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

TW9Z2R	Identifiler® Plus, PowerPlex® Fusion 6C, MiniFiler					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
TXYLR	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
TYCHCG	GlobalFiler™ Express					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
TZMK3L	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		
U28XVN	GlobalFiler™ Express (STRmix)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
U42G8M	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
UBZ4VG	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11				

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

UEZC4X	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
UFCUFB	PowerPlex® Fusion 5C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14		7,9.3	8
	15,17	11				
UKC24U	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		
UUFBBJ	GlobalFiler™ Express (STRmix)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
UVRWZK	Investigator® 24plex (STRmix)					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11				
UX9LYN	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
V3LJ8B	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

V4HTLM	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		
V4JQWH	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11				
VDM3QQ	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
VGPU84	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
VJAQMG	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11				
VJTPNL	GlobalFiler™ Direct (STRmix v.2.8)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
VKKR9F	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

VXARXX	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
VZF29F	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
W26VB3	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
W9DZNV	PowerPlex® Fusion 6C Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
WAJHNC	GlobalFiler™ (STRmix)					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
WBDCZM	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
WGH4C7	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

WNJEM6	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
WRGRGG	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
WTW2HU	PowerPlex® Fusion 6C Direct					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
X2FXLE	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
X6G8KN	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
X9KTNM	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,32.2	7,9.3	8
	15,17	11			2	
XAFCKM	Identifiler® Plus					
		19,19		16,17	12,12	
2	8,10	14,15			11,13	9,12
	15,17	12,16.2	29,30		X,Y	10,12
	20,22				7,9.3	8,8
	15,17					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

XAG4LC	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
XBNPPH	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
XCWVBJ	ESI-17 FAST					
	16.3,18.3	19,19	11,11	16,17		
2		14,15	13,18	19,22		9,12
	15,17	12,16.2	29,30	10,16	X,Y	
	20,22			20,23.2	7,9.3	
	15,17					
XDFNFM	PowerPlex® 21					
	16.3,18.3	19,19		16,17	12,12	17,20
2	8,10	14,15		19,22	11,13	9,12
	15,17	12,16.2	29,30		X,Y	10,12
	20,22	9,13	13,14		7,9.3	8,8
	15,17					
XGV3ZM	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
XH9JBF	GlobalFiler™ Express					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
XKDC28	PowerPlex® 6C (BP Sentry)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

KXZWNWZ	GlobalFiler™ (STRmix)					
	16.3,18.3	19,19	11,11	16,17	12,12	
	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
XL9ZD2	FlexPlex					
	16.3,18.3	19	11	16,17	12	17,20
	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22		13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
XLTE7K	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
XTQ8CU	PowerPlex® Fusion 6C Direct					
	16.3,18.3	19	11	16,17	12	
	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
XVXFCD	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
XYZAEP	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
Y8NMTE	GlobalFiler™ (STRmix™)					
	16.3,18.3	19	11	16,17	12	
	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

YAQPB4	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
YBMYPE	GlobalFiler™ (STRmix)					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
YFFACY	Identifiler®, Investigator® 24plex QS, FlexPlex27					
	16.3,18.3	19,19	11,11	16,17	12,12	17,20
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	N/A	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16	N/A	
YLMUKP	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		
YQ28PH	PowerPlex® Fusion 6C					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8,8
	15,17	11	18	16		
YUKCBY	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
YVRU6N	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

YXGW4X	PowerPlex® Fusion 5C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14		7,9.3	8
	15,17	11				
YXXYXC	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
Z3RFNC	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
Z7PYNP	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	
Z9W9UZ	Investigator® 24plex					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11				
ZBG79H	GlobalFiler™					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11			2	
ZBZ2QK	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 2 - STR Results

ZD4UHX	Identifiler®, Investigator® 24plex QS,GO!					
	16.3,18.3	19,19	11,11	16,17	12,12	N/A
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	N/A	N/A	20,23.2	7,9.3	8,8
	15,17	11	N/A	N/A	N/A	
ZK7WTP	Investigator® 24plex					
	16.3,18.3	19,19	11,11	16,17	12,12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8,8
	15,17	11				
ZNMBB4	PowerPlex® Fusion 6C					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22	9,13	13,14	20,23.2	7,9.3	8
	15,17	11	18	16		
ZVJBGJ	GlobalFiler™					
	16.3,18.3	19	11	16,17	12	
2	8,10	14,15	13,18	19,22	11,13	9,12
	15,17	12,16.2	29,30	10,16	X,Y	10,12
	20,22			20,23.2	7,9.3	8
	15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

22TQ4E	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
243KYE	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
2D3EMC	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,[Y]	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
2FD9WJ	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
2HHXYR	PowerPlex® Fusion 6C					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
2L99VJ	PowerPlex® Fusion					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14		7,9.3	8,8
	14,15,17	11				
2N6LVH	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	18,19,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,17,18	18,19,21,22	10,11,12,13	9,11,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16,17	X,Y	10,11,12
	19,20,21,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

2QB3ZF	PowerPlex® 6C					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
2QB99M	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
2R6WRH	PowerPlex® Fusion 6C (STRMix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
2RNMRP	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
3BRW47	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8,8
	14,15,17	11			2	
3GGG62	NGM SElect					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17		
3		10,13,14,15	13,14,18	18,19,22		9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	
	19,20,22			20,23.2,29.2,30.2	7,9.3	
	14,15,17					
3JPK4J	PowerPlex® Fusion 6C					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

3N2JL4	PowerPlex® Fusion 5C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14		7,9.3	8
	14,15,17	11				
3Q3PKH	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
3RWD4D	GlobalFiler™ (STRmix v. 2.4)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
3WCRZK	PowerPlex® Fusion 6C (STRmix v2.5)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
43E3RB	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
44CJVZ	PowerPlex® Fusion 6C					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
487EJZ	PowerPlex® ESI17 FAST					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17		
3		10,13,14,15	13,14,18	18,19,22		9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	
	19,20,22			20,23.2,29.2,30.2	7,9.3	
	14,15,17					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

4AGZNU	GlobalFiler™ (STRmix)					
	11,14,15,15.3,16.3,17.3,18.3	18,19,20,23	10,11,13,14	14,15,16,17	11,12	
3	8,9,10,11	10,13,14,15	12,13,14,17,18	17,18,19,21,22	10,11,12,13	9,11,12,13
	14,15,16,17,18	11,12,14,15.2,16.2	28,29,30,32.2	10,14,15,16	X,Y	10,11,12
	18,19,20,21,22			19,20,22.2,23.2,28.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
4C3HQR	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
4E2J7A	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
4EUZLL	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
4H2U3A	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
4M8RBJ	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
4MAK87	GlobalFiler™ (STRmix v2.6)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

4MG9YG	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
4NCR2H	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
4P9CLW	Identifiler® Plus					
		19,20,23		15,15,(16),(17)	11,12	
3	(8),10,12	10,13,(14),(15)			10,11,(13)	(9),12,13
	(15),16,(17),18	11,(12),14,(16.2)	28,(29),(30),32.2		X,X(Y)	(10),12,12
	19,19,(20),(22)				(7),9.3,9.3	8,8
	14,14,(15),(17)					
4T9DTK	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
4TA2FQ	GlobalFiler™ (STRmix)					
	11,14,15,15.3,16.3,17.3,18.3	18,19,20,22,23	10,11,13,14	14,15,16,17	10,11,12	
3	8,9,10,11	9,10,12,13,14,15	12,13,14,17,18	17,18,19,21,22	10,11,12,13	9,11,12,13
	14,15,16,17,18	11,12,14,15.2,16.2	27,28,29,30,31.2,32.2	10,14,15,16	X,Y	9,10,11,12
	18,19,20,21,22			19,20,22.2,23.2,28.2,29.2,30.2	7,9.3	8
	14,15,16,17	11			2	
4TQC2C	GlobalFiler™					
	11,15,16.3,18.3	19,[20,23]	11,14	15,16,17	11,12	
3	8,10,[11]	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,[29.2,30.2]	7,9.3	8
	14,15,17	11			2	



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

4U3V3A	GlobalFiler™ (STRmix v. 2.4)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	NT
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	NT	NT	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	NT	NT	2	
4VEUCA	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
62JTKE	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8,8
	14,15,17	11			2	
66YDXU	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	-
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	-	-	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	-	-	2	
688GWC	PowerPlex® Fusion 6C (STRmix v. 2.5.11)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
69K6JW	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
6C2F82	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

6DCF7F	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
6DE24G	PowerPlex® 21 (STRMix v2.7)					
	11,15,16.3,18.3	19,23		15,16,17	11,12	12,17,19,20
3	8,10,11	10,13,14,15		18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2		X,Y	10,12
	19,20,22	9,10,13	12,13,14		7,9.3	8
	14,15,17					
6J3NYM	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
6M3W6H	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
6NVNE4	PowerPlex® Fusion 5C (STRMix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14		7,9.3	8
	14,15,17	11				
6V9TTV	Identifiler® Plus					
		19,20,23		15,16,17	11,12	
3	8,10,11	10,13,14,15			10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2		X,Y	10,12
	19,20,22				7,9.3	8
	14,15,17					
76ZETR	GlobalFiler™ (STRmix)					
	11,15,16.3,17.3,18.3	18,19,20,23	10,11,14	15,16,17	11,12	
3	8,9,10,11	10,13,14,15	12,13,14,17,18	18,19,22	10,11,12,13	9,11,12,13
	14,15,16,17,18	11,12,14,15.2,16.2	28,29,30,32.2	10,15,16	X,Y	10,11,12
	19,20,21,22			19,20,22.2,23.2,29.2,30.2	7,9.3	8
	14,15,16,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

78HQEB	PowerPlex® Fusion 6C					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
78LFBL	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
7MYR2T	PowerPlex® Fusion 6C (STRmix)					
	[11],[15],16.3,18.3	19,[20],[23]	11,[14]	[15],16,17	[11],12	
3	8,10,[11]	[10],[13],14,15	13,[14],18	[18],19,22	[10],11,13	9,12,[13]
	15,[16],17,[18]	[11],12,[14],16.2	[28],29,30,[32.2]	10,[15],16	X,Y	10,12
	[19],20,22	9,[10],13	[12],13,14	20,23.2,[29.2],[30.2]	7,9.3	8
	14,15,17	11	18	16		
7V99M8	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
7VNCCT	Identifiler® Plus					
		19,20,23		15,16,17	11,12	
3	8,10,11	10,13,14,15			10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2		X,Y	10,12
	19,20,22				7,9.3	8
	14,15,17					
7YPLDM	PowerPlex® Fusion 6C					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
834PGB	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

84EEX2	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8,8
	14,15,17	11			2	
86EK89	GlobalFiler™					
	[11],16.3,18.3	19,[20],[23]	11,[14]	[15],16,17	[11],12	
3	8,10,[11]	[10],[13],14,15	13,[14],18	[18],19,22	[10],11,13	9,12,[13]
	15,[16],17,[18]	[11],12,[14],16.2	[28],29,30,[32.2]	10,[15],16	X,Y	10,12
	[19],20,22			20,23.2,[29.2],[30.2]	7,9.3	8
	[14],15,17	11			2	
8EWZAB	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
8HG27H	PowerPlex® ESX 17 Fast					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17		
3		10,13,14,15	13,14,18	18,19,22		9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	
	19,20,22			20,23.2,29.2,30.2	7,9.3	
	14,15,17					
8NPD8P	GlobalFiler™ (STRmix)					
	11,15,16.3,17.3,18.3	18,19,20,23	10,11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	12,13,14,17,18	18,19,22	10,11,12,13	9,12,13
	14,15,16,17,18	11,12,14,15.2,16.2	28,29,30,32.2	10,15,16	X,Y	10,11,12
	19,20,21,22			19,20,22.2,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
8V3HQA	PowerPlex®, ESI-17					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17		
3		10,13,14,15	13,14,18	18,19,22		9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	
	19,20,22			20,23.2,29.2,30.2	7,9.3	
	14,15,17					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

8YHT3R	PowerPlex® ESI-17					
	11,15,16.3,17.3,18.3	19,20,23	11,14	15,16,17		
3	10,13,14,15	13,14,18	18,19,22		9,(10),12,13	
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	
	19,20,22		20,23.2,28.2,29.2,30.2	7,9.3		
	14,15,17					
93KUWN	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22		20,23.2,29.2,30.2	7,9.3		8
	14,15,17	11			2	
93ZBU2	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22		20,23.2,29.2,30.2	7,9.3		8
	14,15,17	11			2	
97E6FZ	GlobalFiler™ (STRmix v2.5.11)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22		20,23.2,29.2,30.2	7,9.3		8,8
	14,15,17	11			2	
9AULN6	GlobalFiler™ (STRmix 2.4)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22		20,23.2,29.2,30.2	7,9.3		8
	14,15,17	11			2	
9CQWYZ	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22		20,23.2,29.2,30.2	7,9.3		8
	14,15,17	11			2	
9JQFYA	Investigator® 24plex QS					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22		20,23.2,29.2,30.2	7,9.3		8
	14,15,17	11				

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

9K3ZZ8	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
9PVZKU	GlobalFiler™ (STRmix v2.6.2)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
9YYBEC	PowerPlex® Fusion 6C, GlobalFiler™, NGM Detect					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16	2	
9ZA76B	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
9ZJTWQ	GlobalFiler™ (STRmix v2.5)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
A3WB78	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
A4N6WV	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

A6MAMQ	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
A7TXK3	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	12	NT
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	NT	NT	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	NT	NT	2	
A97GY7	PowerPlex® Fusion 6C (STRmix V2.5)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
A9G82V	GlobalFiler™					
	11,15,16.3,18.3	19,[20],[23]	11,14	15,16,17	[11],12	
3	8,10,11	10,13,14,15	13,[14],[18]	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,[Y]	[10],12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
ALRLEF	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
ANECAT	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
AYYUUD	PowerPlex® Fusion 6C					
	[11,15],16.3,18.3	19,[20,23]	11,[14]	[15],16,17	[11],12	
3	8,10,[11]	[10,13],14,15	13,[14],18	[18],19,22	[10],11,13	9,12,[13]
	15,[16],17,[18]	[11],12,[14],16.2	[28],29,30,[32.2]	10,[15],16	X,Y	10,12
	[19],20,22	9,[10],13	[12],13,14	20,23.2,[29.2,30.2]	7,9.3	8
	[14],15,17	11	18	16		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

AZM4Q8	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
B24JWL	GlobalFiler™ (STRMix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
B4H92Q	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
B7A8JV	GlobalFiler™ (STRmix v2.4)					
	11,15,16.3,18.3	18,19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,17,18	18,19,22	10,11,12,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,11,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
B8AB4X	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
BAC8FL	Investigator® 24plex QS (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11				
BHKVEE	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

BMLR9F	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
BNEHHZ	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
BNUXGA	Essplex SE QS (Gene Mapper ID-X v 1.2)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17		
3		10,13,14,15	13,14,17,18	18,19,22		9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	
	19,20,22			20,23.2,29.2,30.2	7,7.3,9.3	
	14,15,17					
BP2CLU	GlobalFiler™ (TrueAllele)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
BRTHBK	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8,8
	14,15,17	11			2	
BUL9K7	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
BV7CY6	PowerPlex® Fusion 6C					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

BVC82P	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
BWRQLM	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
C6E2HV	Investigator® 24plex QS (STRmix v2.9.1)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11				
CEYEF7	GlobalFiler™ (BulletProof Sentry)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
CV97FP	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8,8
	14,15,17	11			2	
D2VECU	PowerPlex® Fusion 5C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14		7,9.3	8
	14,15,17	11				
D9TXJQ	GlobalFiler™					
	[11],[15],16.3,18.3	19,[20],[23]	11,[14]	[15],16,17	[11],12	
3	8,10,[11]	[10],[13],14,15	13,[14],18	18,19,22	[10],11,13	9,12,[13]
	15,[16],17,[18]	[11],12,[14],16.2	[28],29,30,[32.2]	10,15,16	X,[Y]	10,12
	19,20,22			20,23.2,[29.2],[30.2]	[7],9.3	8,8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

DA8BEE	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
DCCYVQ	Investigator® 24plex QS (TrueAllele)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11				
DGKM87	PowerPlex® Fusion 6C (STRMix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
DJCJXL	GlobalFiler™					
	11,15,16.3,18.3	19,20,[21],23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
DN4T4D	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
DPY9HV	GlobalFiler™ (STRMIX)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
DQPGHY	GlobalFiler™ (STRmix)					
	11,16.3,18.3	19,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

DUDV79	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
DY2M7P	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
DY3N29	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
E33YVM	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
E34P4Q	Investigator® 24plex QS					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	12	
3	8,10,11	10,14,15	13,14,18	19,22	10,11,13	9,12,13
	15,16,17	12,14,16.2	29,30,32.2	10,15,16	X,Y	10,12
	20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11				
E3VZ86	Identifiler® Plus					
		19,19,[20,23]		[15],16,17	[11],12,12	
3	8,10	[10,13],14,15			[10],11,13	9,12,[13]
	15,[16],17,[18]	[11],12,[14],16.2	[28],29,30,[32.2]		X,Y	
	[19],20,22				7,9.3	8,8
E6PKK4	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

ECP2VA	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8,8
	14,15,17	11	18	16		
EKKMRG	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30.2,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
ENGVYQ	GlobalFiler™ (STRmix 2.4)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
EPD4D3	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
ETBPZY	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
EXBPLP	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2	7,9.3	8
	14,15,17	11			2	
F2F7WW	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

FAXC2G	PowerPlex® Fusion 5C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14		7,9.3	8
	14,15,17	11				
FAZ46H	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
FDVN2M	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8,8
	14,15,17	11			2	
FEAD6Y	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
FEVX3J	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,[15.2],16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
FFHHK9	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
FGAL8N	Identifiler® Plus					
		(19),20,23		15,15,(16),(17)	11,12	
3	(8),10,11	10,13,(14),(15)			10,11,(13)	(9),12,13
	(15),16,(17),18	11,(12),14,(16.2)	28,(29),(30),32.2		X,X(Y)	(10),12,12
	19,19,(20),(22)				(7),9.3,9.3	8,8
	14,14,(15),(17)					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

FGUEXZ	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	NT
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	NT	NT	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	NT	NT	2	
FMLEHM	NGM					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17		
3		10,13,14,15	13,14,18	18,19,22		9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	
	19,20,22				7,9.3	
	14,15,17					
FMY4LZ	GlobalFiler™					
	11,15,16.3,18.3	19,[20],[23]	11,14	15,16,17	[11],12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
FQ86Z6	PowerPlex® Fusion 6C (STRMix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
FQMLXJ	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
FT6UUX	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
FTMQEK	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	-
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	-	-	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	-	-	2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

FVXCLY	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16,17	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
FYFYTC	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
G3CU6K	GlobalFiler™					
	11,15,16.3,18.3	19,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
G6FRAL	GlobalFiler™ (STRMix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8,8
	14,15,17	11			2	
G8ZMPY	PowerPlex® Fusion 6C					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
GDBMCP	Investigator® 24plex QS (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11				
GKVQJT	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

GM29JA	GlobalFiler™					
	[11],[15],16.3,18.3	19,[20],[23]	11,14	15,16,17	[11],12	
3	8,10,[11]	[10],[13],14,15	13,[14],[18]	18,19,22	[10],11,13	9,12,[13]
	15,[16],17,[18]	[11],12,[14],16.2	[28],29,30,[32.2]	10,15,16	X,Y	[10],12
	19,20,22			20,23.2,[29.2],[30.2]	[7],9.3	8,8
	14,15,17	11			2	
GQTJBY	GlobalFiler™ (Bullet Proof Sentry)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
GQYLDZ	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
GXZNT	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
GYHNXA	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
H2NYP3	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
H4JEMT	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8,8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

H8MDRJ	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
H8Y9YJ	GlobalFiler™ (GeneMapper ID-X 1.5)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
H9A22Y	PowerPlex® Fusion 6C (STRMix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
H9E37K	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
HG9BNQ	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8,8
	14,15,17	11			2	
HJEVCQ	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8,8
	14,15,17	11			2	
HPG2RU	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

HPZNNQ	GlobalFiler™ (STRmix 2.4)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
HRQ3W2	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
HTJXJA	PowerPlex® Fusion 6C					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
HUEGKB	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	11,13	9,12,13
	15,17,18	12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
HUTQRQ	GlobalFiler™ (STRmix 2.4)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
HXR4DU	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
J7HB7K	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

JA4YXC	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
JCN3FH	Identifiler® Plus					
		19,20,23		15,16,17	11,12	
3	8,10,11	10,13,14,15			10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2		X,X,Y	10,12
	19,20,22				7,9.3	8,8
	14,15,17					
JHGVR	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
JKXJ8	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
JNMM8A	PowerPlex® Fusion 6C					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
JPXHK2	GlobalFiler™ (STRmix V2.4.06)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
JRL3HJ	GlobalFiler™ (STRmix v2.5)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

JWFR9X	PowerPlex® Fusion 6C					
	[11,15],16.3,18.3	19,[20,23]	11,[14]	[15],16,17	[11],12	
3	8,10,[11]	[10,13],14,15	13,[14],18	[18],19,22	[10],11,13	9,12,[13]
	15,[16],17,[18]	[11],12,[14],16.2	[28],29,30,[32.2]	10,[15],16	X,Y	10,12
	[19],20,22	9,[10],13	[12],13,14	20,23.2,[29.2,30.2]	7,9.3	8
	[14],15,17	11	18	16		
K27KGJ	PowerPlex® Fusion 6C					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
K6T7MD	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
K8CA74	PowerPlex® Fusion 6C (STRMix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,17,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8,8
	14,15,17	11	18	16		
K8UAAT	GlobalFiler™					
	[11],[15],16.3,18.3	19,[20],[23]	11,14	15,16,17	[11],12	
3	8,10,[11]	[10],[13],14,15	13,[14],18	18,19,22	[10],11,13	9,12,[13]
	15,[16],17,[18]	[11],12,[14],16.2	[28],29,30,[32.2]	10,15,16	X,Y	10,12
	19,20,22			20,23.2,[29.2],[30.2]	7,9.3	8
	14,15,17	11			2	
KEUHQU	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
KFNBJR	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

KFQ9KF	PowerPlex® Fusion 6C (STRmix 2.6.2)					
	11,15,16.3,18.3	19,[20],[23]	11,14	15,16,17	[11],12	
3	8,10,[11]	10,13,14,15	13,[14],18	18,19,22	[10],11,13	9,12,[13]
	15,16,17,[18]	11,12,[14],16.2	28,29,30,[32.2]	10,15,16	X,[Y]	[10],12
	19,20,22	9,10,13	[12],13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
KR47R6	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
KTBHGT	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
KYLH66	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
L29GW9	GlobalFiler™ (STRmix)					
	11,15,15.3,16.3,17.3,18.3	18,19,20,23	10,11,14	14,15,16,17	11,12	
3	7,8,9,10,11	10,13,14,15	12,13,14,17,18	17,18,19,21,22	10,11,12,13	8,9,11,12,13
	14,15,16,17,18	11,12,14,15.2,16.2	28,29,30,32.2	10,14,15,16,17	X,Y	9,10,11,12
	18,19,20,21,22			19,19.2,20,22.2,23.2,28.2,29.2,30.2	7,9.3	8
	14,15,16,17	10,11			2	
L3TQ9T	PowerPlex® 5C					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	--
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	--	7,9.3	8
	14,15,17	11	--	--	--	
L4ATAZ	PowerPlex® Fusion 6C					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

L9NGTW	GlobalFiler™ (STR mix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
LDFFDU	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
LEPH7K	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
LGUFBL	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
LJZQBV	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
LKX4XN	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
LMRJVE	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

LP88ZJ	PowerPlex® Fusion 5C					
	[11,15],16.3,18.3	19,[20,23]	11,[14]	[15],16,17	[11],12	
3	[8],10,[11]	[10,13],14,15	13,[14],18	[18],19,22	[10],11,[13]	9,[12,13]
	15,[16],17,[18]	[11],12,[14],16.2	[28],29,30,[32.2]	10,[15],16	X,[Y]	10,12
	[19],20,22	9,[10],13	[12],13,14		[7],9.3	8
	[14],15,17	11				
LPRWCC	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
LQ7DBC	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
LU3867	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
LZNZ4Y	GlobalFiler™ (STRmix v.2.4.06)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
M6H8AE	Identifiler® Plus					
		19,20,23		15,16,17	11,12	
3	8,10,11	10,13,14,15			10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2		X,X,Y	10,12
	19,20,22				7,9.3	8,8
	14,15,17					
M6YEFW	GlobalFiler™ (STRmix)					
	11,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,18	18,19,22	11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2	7,9.3	8
	14,15,17	11			2	



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

M8MT47	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,17,18	18,18.3,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
M9XMRT	PowerPlex® ESI 16 FAST SYSTEM (LR MIX STUDIO VERSION 2.0.0 COMMUNITY EDITION)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17		
3		10,13,14,15	13,14,18	18,19,22		9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	
	19,20,22				7,9.3	
	14,15,17					
MB438C	Identifiler® Plus					
		19,20,23		15,16,17	11,12	
3	8,10,11	10,13,14,15			10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2		X,Y	10,12
	19,20,22				7,9.3	8
	14,15,17					
MBL6Z7	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
MG88YV	GlobalFiler™ (STRmix v 2.4.06)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
MHLP4M	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
MMFKML	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

MP2CUH	PowerPlex® Fusion 5C					
	11,15,16.3,18.3	19,[20,23]	11,14	15,[16,17]	[11],12	
3	[8],10,[11]	10,13,14,15	13,[14,18]	18,[19,22]	[10],11,[13]	[9],12,[13]
	15,16,17,18	11,12,[14,16.2]	28,29,30,[32.2]	[10],15,[16]	X,Y	[10],12
	19,[20,22]	9,[10],13	[12,13],14		[7],9.3	8
	14,[15,17]	11				
MV87ND	Identifiler® Plus					
		19,20,23		15,16,17	11,12	
3	8,10,11	10,13,14,15			10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2		X,X,Y	10,12
	19,20,22				7,9.3	8,8
	14,15,17					
N2C3CK	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
N3QLY3	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
NCEHZ4	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
NGBYKB	GlobalFiler™ (STRmix v2.5)					
	11,15,16.3,18.3	19,20	11,14	15,16,17	12	
3	8,10,11	10,14,15	13,18	18,19,22	11,13	9,12,13
	15,17,18	12,14,16.2	29,30,32.2	10,15,16	X,Y	10,12
	20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
NNRHUC	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

NVBB39	PowerPlex® 21 (STRmix v2.7)					
	11,15,16.3,18.3	19,20,23		15,16,17	11,12	12,17,19,20
3	8,10,11	10,13,14,15		18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2		X,Y	10,12
	19,20,22	9,10,13	12,13,14		7,9.3	8
	14,15,17					
P4FE9C	GlobalFiler™					
	[11],[15],16.3,18.3	19p,20,23	11p,14	15,16,17	11,12p	
3	8,10,[11]	[10],[13],14,15	13,[14],18	18,19,22	[10],11,13	9,12,[13]
	15,16,17,18	[11],12,[14],16.2	[28],29,30,[32.2]	10,15,16	X,Y	10,12
	19,20,22			20,23.2,[29.2],[30.2]	7,9.3	8
	14,15,17	11			2	
PA89VD	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
PBJC3A	PowerPlex® Fusion 6C (STRmix)					
	[11],16.3,18.3	19	11,[14]	[15],16,17	[11],12	
3	8,10,[11]	[10],[13],14,15	13,[14],18	[18],19,22	[10],11,13	9,12
	15,[16],17	[11],12,[14],16.2	[28],29,30,[32.2]	10,[15],16	X,Y	10,12
	[19],20,22	9,13	[12],13,14	20,23.2,[29.2]	7,9.3	8
	[14],15,17	11	18	16		
PC8PKT	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
PFTE3K	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
PLA2MN	GlobalFiler™ (STRmix v. 2.4)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

PQNRWP	GlobalFiler™ (STRMIX)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
PZHNBD	GlobalFiler™ (STRmix v2.5)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
Q4RFKD	PowerPlex® Fusion 6C (Bulletproof Sentry)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
Q6MYQK	homemade multiplex					
	11,15,16.3,18.3		11,14	15,16,17		
3		10,13,14,15	13,14,18	18,19,22		9,12,13
	15,16,17,18		28,29,30,32.2	10,15,16	X,Y	
	19,20,22			20,23.2,29.2,30.2	7,9.3	8,8
	14,15,17					
Q7HMY9	GlobalFiler™ (STRmix v2.5)					
	15,16.3,18.3	19,23	11,14	15,16,17	12	
3	8,10,11	10,13,14,15	13,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
Q7KALN	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
Q9ALD7	GlobalFiler™ (STRmix)					
	11,14,15,16.3,18.3	18,19,20,22,23	10,11,13,14	14,15,16,17	10,11,12	
3	8,9,10,11	9,10,12,13,14,15	12,13,14,17,18	17,18,19,22	10,11,12,13	9,11,12,13
	14,15,16,17,18	10,11,12,13,14,15.2,16.2	28,29,30,31.2,32.2	10,14,15,16	X,Y	10,11,12
	18,19,20,21,22			19,20,22.2,23.2,28.2,29,29.2,30,30.2	7,8.3,9.3	8
	13,14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

QAE79T	Identifiler® Plus					
		19,20,23		15,16,17	11,12	
3	8,10,11	10,13,14,15			10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2		X,Y	10,12
	19,20,22				7,9.3	8
	14,15,17					
QFTPK9	GlobalFiler™ (STRmix v2.6)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
QHUQMQ	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
QKZFPZ	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
QPCBJC	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
QR2TMH	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
QWVC4V	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

QYU4HL	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	18,19,20,23	10,11,14	15,16,17	11,12	N/T
3	8,9,10,11	10,13,14,15	12,13,14,17,18	18,19,21,22	10,11,12,13	8,9,11,12,13
	14,15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16,17	X,Y	9,10,11,12
	19,20,21,22	N/T	N/T	20,23.2,29.2,30.2	7,9.3	7,8
	14,15,16,17	11	N/T	N/T	2	
R96LRW	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
RB6QD4	Investigator® 24plex (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11				
RBRYV9	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
RJHVAV	PowerPlex® Fusion 6C (STRmix V2.5.11)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
RKFWKT	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
RNVHX9	Investigator® 24plex (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11				

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

RP7H3F	Investigator® 24plex QS (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11				
RPQ24F	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
RVWTCD	Investigator® 24plex QS (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11				
RWQK4Q	GlobalFiler™ (Bulletproof Sentry)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
RWWJR9	PowerPlex® Fusion 6C (STRmix)					
	[11],[15],16.3,18.3	19,[20],[23]	11,[14]	15,16,17	[11],12	
3	8,10,[11]	[10],[13],14,15	13,[14],18	18,19,22	[10],11,13	9,12,[13]
	15,[16],17,[18]	[11],12,[14],16.2	[28],29,30,[32.2]	10,15,16	X,Y	10,12
	19,20,22	9,[10],13	[12],13,14	20,23.2,[29.2],[30.2]	7,9.3	8
	14,15,17	11	18	16		
RX6RY8	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
RZNVZL	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

RZRHXQ	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
T37NLC	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
T43YLL	PowerPlex® Fusion 5C					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14		7,9.3	8
	14,15,17	11				
T4RYW7	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
T6FJEW	PowerPlex® Fusion 6C (STRmix v2.5)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
T78M2B	Identifiler® Plus					
		19,20,23		15,16,17	11,12	
3	8,10,11	10,13,14,15			10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2		X,X,Y	10,12
	19,20,22				7,9.3	8,8
	14,15,17					
TBNWA9	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

TFHVX6	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
TJT4P9	GlobalFiler™					
	11,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10	10,14,15	13,18	18,19,22	10,11,13	9,12
	15,16,17,18	12,16.2	28,29,30	10,15,16	X,Y	10,12
	19,20,22			20,23.2	7,9.3	8
	14,15,17	11			2	
TMHEVU	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
TMJ48D	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
TMTDV6	Identifiler®, Investigator® 24plex QS					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	N/A
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	N/A	N/A	20,23.2,29.2	7,9.3	8
	14,15,17	11	N/A	N/A	N/A	
TNQMR8	Identifiler® Plus					
		19,20,23		15,16,17	11,12	
3	8,10,11	10,13,14,15			10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2		X,Y	10,12
	19,20,22				7,9.3	8
	14,15,17					
TNURZQ	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

TPK7XE	GlobalFiler™ (STRmix 2.4)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
TQWYWN	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
TUKDKX	GlobalFiler™					
	11,15,16.3,18.3	19,[20],[23]	11,14	15,[16],[17]	[11],12	
3	8,10,11	10,13,14,15	13,[14],[18]	18,[19],[22]	10,11,[13]	[9],12,[13]
	15,16,17,18	11,12,14,[16.2]	28,29,30,32.2	[10],15,[16]	X,[Y]	[10],12
	19,[20],[22]			20,23.2,29.2,30.2	[7],9.3	8,8
	14,[15],[17]	11			2	
TW9Z2R	Identifiler® Plus, PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
TXYXLR	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
TYCHCG	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
TZMK3L	PowerPlex® Fusion 6C (STRMix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

U28XVN	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
U42G8M	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
UEZC4X	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
UFCUFB	PowerPlex® Fusion 5C					
	[11,15],16.3,18.3	19,[20,23]	11,[14]	15,16,17	[11],12	
3	8,10,[11]	[10,13],14,15	13,[14,18]	18,[19],22	[10],11,13	[9],12,[13]
	15,[16],17,[18]	[11],12,[14],16.2	[28],29,30,[32.2]	10,[15],16	X,[Y]	10,12
	[19],20,22	9,[10],13	[12,13],14		[7],9.3	8
	14,[15],17	11				
UKC24U	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
UUFBBJ	GlobalFiler™, MiniFiler (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
UVRWZK	Investigator® 24plex (STRmix)					
	[11],[15],16.3,18.3	19,[20],[23]	11,[14]	15,16,17	[11],12	
3	8,10,[11]	10,13,14,15	13,[14],18	18,19,22	[10],11,13	9,12,[13]
	15,[16],17,[18]	[11],12,[14],16.2	[28],29,30,[32.2]	10,15,16	X,[Y]	[10],12
	19,20,22			20,23.2,[29.2],[30.2]	[7],9.3	8
	14,15,17	11				

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

UX9LYN	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
V3LJ8B	GlobalFiler™ (STRmix 2.4)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
V4HTLM	PowerPlex® Fusion 6C (STRmix 2.5)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
VDM3QQ	PowerPlex® Fusion 6C					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,18.3,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
VGPU84	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
VJTPNL	GlobalFiler™ (STRmix v.2.8)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16,17	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
VKKR9F	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

VXARXX	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
VZF29F	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8,8
	14,15,17	11			2	
W26VB3	GlobalFiler™ (STRmix v2.5)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
W9DZNV	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,11,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
WAJHNC	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
WBDCZM	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
WGH4C7	GlobalFiler™ (STRmix v2.5)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

WNJEM6	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
WRGRGG	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
WTW2HU	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
X2FXLE	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
X6G8KN	PowerPlex® Fusion 6C					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
X9KTNM	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
XAFCKM	Identifiler® Plus					
		19,20,23		15,16,17	11,12	
3	8,10,11	10,13,14,15			10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2		X,Y	10,12
	19,20,22				7,9.3	8
	14,15,17					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

XAG4LC	GlobalFiler™ (strmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8,8
	14,15,17	11			2	
XBNPPH	GlobalFiler™ (STRmix v2.4)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
XCWVBJ	ESI-17 FAST					
	(11),(15),16.3,18.3	19,(20),(23)	11,(14)	16,17		
3		(10),14,15	13,18	(18),19,22		9,12,(13)
	15,17,(18)	12,(14),16.2	(28),29,30,(32.2)	10,(15),16	X,Y	
	20,22			20,23.2,(30.2)	7,9.3	
	15,17					
XDFNFM	PowerPlex® 21 (STRmix)					
	11,15,16.3,18.3	19,20,23		15,16,17	11,12	12,17,19,20
3	8,10,11	10,13,14,15		18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2		X,Y	10,12
	19,20,22	9,10,13	12,13,14		7,9.3	8,8
	14,15,17					
XGV3ZM	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
XH9JBF	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
XKDC28	PowerPlex® 6C (BP Sentry)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

KXZWNWZ	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11		2		
XTQ8CU	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
XVXFCD	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11		2		
XYZAEP	PowerPlex® Fusion 6C					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
Y8NMTE	GlobalFiler™, MiniFiler (STRmix™)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11		2		
YAQPB4	GlobalFiler™					
	[11],15,16.3,18.3	19,[20],[23]	11,[14]	15,16,17	[11],12	
	8,10,[11]	[10],[13],14,15	13,[14],18	18,[19],[22]	[10],11,[13]	[9],12,[13]
	15,16,[17],[18]	[11],12,[14],16.2	28,29,30,[32.2]	10,15,16	X,[Y]	[10],12
	19,20,22			20,23.2,[29.2],[30.2]	[7],9.3	8,8
	14,15,17	11		2		
YBMYPE	GlobalFiler™, MiniFiler (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11		2		



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

YFFACY	Identifiler®, Investigator® 24plex QS					
	[11],[15],16.3,18.3	19,[20],[23]	11,[14]	[15],16,17	[11],12	N/A
3	8,10,[11]	[10],[13],14,15	13,[14],18	[18],19,22	[10],11,13	9,12,[13]
	15,[16],17,[18]	[11],12,[14],16.2	[28],29,30,[32.2]	10,[15],16	X,Y	10,12
	[19],20,22	N/A	N/A	20,23.2,[29.2],[30.2]	7,9.3	8
	[14],15,17	11	N/A	N/A	N/A	
YLMUKP	PowerPlex® Fusion 6C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
YQ28PH	PowerPlex® Fusion 6C (STRmix v2.5)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
YUKCBY	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
YVRU6N	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
YXGW4X	PowerPlex® Fusion 5C (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14		7,9.3	8
	14,15,17	11				
YXYYXC	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

Z2ZD4G	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
Z3RFNC	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
Z7PYNP	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
Z9W9UZ	PowerPlex® Fusion 5C					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14		7,9.3	8
	14,15,17	11				
ZBZ2QK	PowerPlex® Fusion 6C					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	18	16		
ZD4UHX	Identifiler®, Investigator® 24plex QS					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	N/A
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22	N/A	N/A	20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11	N/A	N/A	N/A	
ZK7WTP	Investigator® 24plex					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11				

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3 - STR Results

ZNMBB4		PowerPlex® Fusion 6C				
		11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12
3		8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13
		15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y
		19,20,22	9,10,13	12,13,14	20,23.2,29.2,30.2	7,9.3
		14,15,17	11	18	16	8
ZVJBGJ		GlobalFiler™				
		11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12
3		8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13
		15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y
		19,20,22			20,23.2,29.2,30.2	7,9.3
		14,15,17	11			2

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3e - STR Results

49MC7Y	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3e	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
6YARC2	GlobalFiler™ (STRmix v 2.5.11)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3e	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
9LVNPU	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3e	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
BRT7PQ	Identifiler® Plus					
		(19),20,23		15,15,(16),(17)	11,12	
3e	(8),10,11	10,13,(14),(15)			10,11,(13)	(9),12,13
	(15),16,(17),18	11,(12),14,(16.2)	28,(29),(30),32.2		X,X,(Y)	(10),12,12
	19,19,(20),(22)				(7),9.3,9.3	8,8
	14,14,(17)					
CGNR8P	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3e	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
D77BEH	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3e	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
G2H7MP	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3e	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3e - STR Results

GM3W8E	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3e	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
JEXVKH	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3e	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
P2E3X7	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3e	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
QAHLNE	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3e	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
QLCYNC	GlobalFiler™					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3e	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
TUL294	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3e	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
ZBG79H	GlobalFiler™					
	[11],[15],16.3,18.3	19,[20],[23]	11,14	15,16,17	11,12	
3e	8,10,11	[10],[13],14,15	13,[14],18	18,19,22	10,11,13	9,12,[13]
	15,[16],17,[18]	[11],12,[14],16.2	[28],29,30,[32.2]	10,15,16	X,Y	10,12
	19,20,22			20,23.2,[29.2],[30.2]	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3sp - STR Results

49MC7Y	GlobalFiler™ (STRmix)					
	NR	NR	NR	15,16,17	NR	
3sp	NR	NR	NR	19,22	NR	NR
	15	12,16.2	NR	NR	NR	NR
	20			NR	NR	NR
	NR	11			NR	
6YARC2	GlobalFiler™ (STRmix v 2.5.11)					
	11,15,16.3,18.3	19,20	11,14	15,16,17	11,12	
3sp	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12
	15,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2	7,9.3	8
	14,15,17	11			2	
9LVNPU	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3sp	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
BRT7PQ	Identifiler® Plus					
3sp						
CGNR8P	GlobalFiler™ (STRmix)					
	11,18.3	19,20	11,14	16,17	12	
3sp	10	NR	18	18	NR	9
	15,18	12,14,16.2	NR	10,15,16	X	12
	20			NR	7,9.3	8
	NR	NR			2	
D77BEH	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20	11,14	15,16,17	12	
3sp	8,10,11	10,14,15	13,14,18	18,19,22	10,11,13	9,12
	15,16,17,18	11,12,14,16.2	29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
G2H7MP	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3sp	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 3sp - STR Results

GM3W8E	GlobalFiler™ (STRmix)					
	NR	19,20,23	11,14	15,16,17	NR	
3sp	NR	10,13,14,15	NR	NR	NR	12
	17	11,12,14,16.2	NR	NR	NR	12
	19,20,22			20	7,9.3	8
	14,17	11			NR	
JEXVKH	GlobalFiler™ (STRmix)					
	NR	NR	11,14	15,16,17	NR	
3sp	NR	10,13,14,15	NR	18,19,22	11	NR
	15	12,14,16.2	NR	10,16	Y	12
	19			NR	7,9.3	8
	NR	NR			NR	
P2E3X7	GlobalFiler™ (STRmix)					
	16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3sp	NR	13,14	13,14,18	19	NR	9,12
	15,16,17,18	11,12,16.2	NR	10,15,16	X	10,12
	19,20,22			23.2	7,9.3	8
	14,15	11			NR	
QAHLNE	GlobalFiler™ (STRmix)					
		19	11			
3sp						
QLCYNC	GlobalFiler™					
3sp						
TUL294	GlobalFiler™ (STRmix)					
	11,15,16.3,18.3	19,20,23	11,14	15,16,17	11,12	
3sp	8,10,11	10,13,14,15	13,14,18	18,19,22	10,11,13	9,12,13
	15,16,17,18	11,12,14,16.2	28,29,30,32.2	10,15,16	X,Y	10,12
	19,20,22			20,23.2,29.2,30.2	7,9.3	8
	14,15,17	11			2	
ZBG79H	GlobalFiler™					
	11,15,16.3,18.3	19,23	11,14	15,16,17	12	
3sp	8,10	10,14,15	13,14,18	18,19,22	10,11,13	9,12
	15,16,17,18	11,12,14,16.2	28,29,30	10,15,16	X,Y	10,12
	19,20,22			20,23.2	7,9.3	8
	14,15,17	11			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

2L99VJ	PowerPlex® Fusion					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14		6,8,9.3	8,8
	14,16,19	10				
4MAK87	GlobalFiler™ (STRmix v2.6)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
69K6JW	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
8HG27H	PowerPlex® ESX 17 Fast					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17		
4		10,13,14	13,14,16	17,18		11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	
	14,16,19					
8YHT3R	PowerPlex® ESI-17					
	11,15,15.3,17.3	17,20,23,24,(25)	10,14	15,17		
4		10,13,14	13,14,16	17,18		11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	
	14,16,19					
93ZBU2	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
9CQWYZ	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

9YYBEC	PowerPlex® Fusion 6C, GlobalFiler™, NGM Detect					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10	21	17	2	
A6MAMQ	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
B8AB4X	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
BNEHHZ	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
BVC82P	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
BWRQLM	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
DPY9HV	GlobalFiler™ (STRMIX)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

E33YVM	GlobalFiler™					
	15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
EXBPLP	GlobalFiler™ (STRmix)					
	15.3,17.3	17,20,24	10,14	15,17	10,11	
4	10	10,14	14,16	17	11	11,12,13
	13,15,16	14,15,17	28,31	16	X,Y	10,11,12
	19,20,22.2			16,27.2	6,8,9,3	8
	14,16,18,19	10			2	
FAZ46H	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
G8ZMPY	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10	21	17		
H8MDRJ	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
J7HB7K	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
PA89VD	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4 - STR Results

Q6MYQK	homemade multiplex					
	11,15,15.3,17.3		10,14	15,17		
4		10,13,14	13,14,16	17,18		11,12,13
	13,15,16,18		28,31,32.2	15,16	X,Y	
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8,8
	14,16,19					
QR2TMH	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
RBRYV9	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
T37NLC	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
WAJHNC	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
WNJEM6	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
YUKCBY	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4 - STR Results

YVRU6N	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

22TQ4E	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
243KYE	GlobalFiler™					
	11,15,[15.3,17.3]	17,20,23,24	[10],14	15,[17]	[10],11,12	
4e	10,11	10,13,[14]	13,14,[16]	17,18	10,11	[11],12,13
	[13,15],16,18	11,14,[15,17]	28,[31],32.2	15,16	X,[Y]	[10],12
	19,[22.2]			[16,27.2],29.2,30.2	[8],9.3	8
	14,[16,19]	[10]			[2]	
2D3EMC	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,[Y]	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,[16],[19]	10			2	
2FD9WJ	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
2HHXYR	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
2N6LVH	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
2QB3ZF	PowerPlex® 6C					
	11,15#	20,23#	14#	15#	11,12#	
4e	10,11	10,13#	13,14#	18#	10,11	12,13#
	16,18#	11,14#	28,32.2#	15#	X#	12#
	19#	10,13	12,14#	29.2,30.2#	9.3#	8
	14#	NR#	NR#	NR#		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

2QB99M	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
2R6WRH	PowerPlex® Fusion 6C (STRMix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	20,21	17		
2RNMRP	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
3BRW47	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8,8
	14,16,19	10			2	
3GGG62	NGM Select					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17		
4e		10,13,14,15	13,14,16	17,18		11,12,13
	13,15,16,18	11,14,15,17	28,31,32,32.2	15,16	X,Y	
	19,20,22.2			16,17,27.2,29.2,30.2	6,8,9.3	
	14,16,19,20					
3JPK4J	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
3N2JL4	PowerPlex® Fusion 5C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14		6,8,9.3	8
	14,16,19	10				

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

3Q3PKH	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
3RWD4D	GlobalFiler™ (STRmix v. 2.4)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
3WCRZK	PowerPlex® Fusion 6C (STRmix v2.5)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
43E3RB	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
44CJVZ	PowerPlex® Fusion 6C					
	11,15,[15.3],[17.3]	[17],20,23,[24]	10,14	15,[17]	[10],11,12	
4e	10,11	10,13,[14]	13,14,[16]	17,18	10,11	[11],12,13
	[13],[15],16,18	11,14,[15],[17]	28,[31],32.2	15,[16]	X,[Y]	[10],[11],12
	19,[20],[22.2]	10,13	[10],[11],12,14	[16],[27.2],29.2,30.2	[6],[8],9.3	8
	14,[16],[19]	[10]	[21]	[17]		
487EJZ	PowerPlex® ESI17 FAST					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17		
4e		10,13,14	13,14,16	17,18		11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	
	14,16,19					
49MC7Y	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

4AGZNU	GlobalFiler™ (STRmix)					
	10,11,14,15,15.3,17.3	17,19,20,22,23,24	10,13,14	14,15,17	10,11,12	
4e	9,10,11	9,10,12,13,14	12,13,14,15,16	16,17,18	9,10,11	11,12,13
	13,15,16,17,18	11,13,14,15,17	27,28,31,32.2	14,15,16	X,Y	10,11,12
	18,19,20,21.2,22.2			16,27.2,28.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
4C3HQR	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8,8
	14,16,19	10			2	
4E2J7A	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
4EUZLL	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
4H2U3A	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
4M8RBJ	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
4MG9YG	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
4e	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

4NCR2H	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
4P9CLW	Identifiler® Plus					
		(17),20,23,(24)		15,15,(17)	(10),11,12	
4e	10,11	10,13,(14)			10,11	(11),12,13
	(13),(15),16,18	11,14,(15),(17)	28,(31),32.2		X,X,(Y)	(10),12,12
	19,19,(20),(22.2)				(6),(8),9.3,9.3	8,8
	14,14,(16),(19)					
4T9DTK	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
4TA2FQ	GlobalFiler™ (STRmix)					
	11,14,15,15.3,17.3	17,19,20,22,23,24	9,10,13,14	14,15,16,17	10,11,12	
4e	9,10,11	9,10,12,13,14	12,13,14,15,16	16,17,18	10,11	11,12,13
	13,14,15,16,17,18	11,14,15,17	27,28,30,31,31.2,32.2	14,15,16,17	X,Y	10,11,12
	18,19,20,22.2			15,16,26.2,27.2,28.2,29.2,30.2	6,8,9.3	8
	13,14,16,18,19	10			2	
4TQC2C	GlobalFiler™					
	11,15,[15.3,17.3]	17,20,23,24	10,14	15,[17]	10,11,12	
4e	10,11	10,13,[14]	13,14,[16]	17,18	10,11	[11],12,13
	13,15,16,18	11,14,15,17	28,[31],32.2	15,16	X,[Y]	[10,11],12
	19,[20,22.2]			16,27.2,29.2,30.2	[6,8],9.3	8
	14,[16,19]	10			2	
4U3V3A	GlobalFiler™ (STRmix v. 2.4)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	NT
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	NT	NT	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	NT	NT	2	
4VEUCA	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

62JTKE	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8,8
	14,16,19	10			2	
66YDXU	GlobalFiler™					
	11,15	20,23	14	15	11,12	-
4e	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X,X	12
	19	-	-	29.2,30.2	9.3	8
	14	NM	-	-	NM	
688GWC	PowerPlex® Fusion 6C (STRmix v. 2.5.11)					
	11,15	20,23	14,14	15,15	11,12	
4e	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
6C2F82	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
6DCF7F	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
6DE24G	PowerPlex® 21 (STRmix v2.7)					
	11,15,15.3,17.3	17,20,23,24		15,17	10,11,12	12,14,19
4e	10,11	10,13,14		17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2		X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14		6,8,9.3	8,8
	14,16,19					
6J3NYM	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

6M3W6H	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
6NVNE4	PowerPlex® Fusion 5C (STRMix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14		6,8,9.3	8
	14,16,19	10				
6V9TTV	Identifiler® Plus					
		17,20,23,24		15,17	10,11,12	
4e	10,11	10,13,14			10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2		X,Y	10,11,12
	19,20,22.2				6,8,9.3	8
	14,16,19					
6YARC2	GlobalFiler™ (STRmix v 2.5.11)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
76ZETR	GlobalFiler™ (STRmix)					
	11,14,15,15.3,17.3	17,19,20,22,23,24	10,13,14	14,15,17	10,11,12	
4e	9,10,11	9,10,12,13,14	13,14,16	17,18	10,11	12,13
	13,15,16,17,18	11,13,14,15,17	28,31,31.2,32.2	14,15,16	X,Y	10,11,12
	18,19,20,22.2			16,27.2,28.2,29.2,30.2	6,8,9.3	8
	14,19	10			2	
78HQEB	PowerPlex® Fusion 6C					
	11,15#	20,23#	14#	15#	11,12#	
4e	10,11	10,13#	13,14#	18#	10,11	12,13#
	16,18#	11,14#	28,32.2#	15#	X#	12#
	19#	10,13	12,14#	29.2,30.2#	9.3#	8
	14#	NR#	NR#	NR		
78LFBL	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

7MYR2T	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,[17.3]	[17],20,23,[24]	[10],14	15,[17]	[10],11,12	
4e	10,[11]	10,13,[14]	13,14,[16]	17,18	10,11	[11],12,13
	13,15,16,18	11,14,15,17	28,[31],32.2	15,16	X,[Y]	[10],[11],12
	19,[20],[22.2]	10,13	[10],[11],12,14	16,27.2,29.2,30.2	[6],[8],9.3	8
	14,[16],[19]	10	21	17		
7V99M8	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
7VNCCT	Identifiler® Plus					
		17,20,23,24		15,17	10,11,12	
4e	10,11	10,13,14			10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2		X,Y	10,11,12
	19,20,22.2				6,8,9.3	8
	14,16,19					
7YPLDM	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
834PGB	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
84EEX2	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8,8
	14,16,19	10			2	
86EK89	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

8EWZAB	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
8NPD8P	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	16,17,20,22,23,24	10,13,14	14,15,16,17	10,11,12	
4e	9,10,11	9,10,13,14	13,14,16	17,18	10,11	11,12,13
	13,14,15,16,17,18	11,14,15,16,17	27,28,31,31.2,32.2	14,15,16,17	X,Y	10,11,12
	18,19,20,21.2,22.2			15,16,26.2,27.2,28.2,29.2,30.2	6,8,9,3	8
	14,16,19	9,10			2	
8V3HQA	PowerPlex®, ESI-17					
4e						
93KUWN	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
97E6FZ	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8,8
	14,16,19	10			2	
9AULN6	GlobalFiler™ (STRmix 2.4)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
9JQFYA	Investigator® 24plex QS					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10				

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

9K3ZZ8	PowerPlex® Fusion 6C (STRmix)					
	11,15	20,23	14,14	15,15	11,12	
4e	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
9LVNPU	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
9PVZKU	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
9ZA76B	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
9ZJTWQ	GlobalFiler™ (STRmix v2.5)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
A3WB78	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
A4N6WV	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14	17,18	10,11	11,12,13
	13,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

A7TXK3	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	NT	NT	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	NT	NT	2	
A97GY7	PowerPlex® Fusion 6C (STRmix V2.5)					
	11,15	20,23	14,14	15,15	11,12	
4e	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
A9G82V	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,[17]	10,11,12	
4e	10,[11]	10,13,14	[13],14,[16]	17,18	[10],11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,[Y]	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	[6],8,9.3	8
	14,16,[19]	10			2	
ALRLEF	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	11,12	
4e	10,11	10,13,14	13,14,16	18	10,11	11,12,13
	13,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
ANECAT	GlobalFiler™					
	11,15,[15.3,17.3]	[17],20,23,[24]	[10],14	15,[17]	[10],11,12	
4e	10,11	10,13,[14]	13,14,[16]	[17],18	10,11	[11],12,13
	[13,15],16,18	11,14,[15,17]	28,[31],32.2	[15,16]	X,[Y]	[10,11],12
	19,[20,22.2]			[16,27.2],29.2,30.2	[6,8],9.3	8
	14,[16,19]	[10]			[2]	
AYYUUD	PowerPlex® Fusion 6C					
	11,15,[15.3,17.3]	[17],20,23,[24]	[10],14	15,[17]	[10],11,12	
4e	10,11	10,13,[14]	13,14,[16]	[17],18	10,11	[11],12,13
	[13,15],16,18	11,14,[15,17]	28,32.2	15,[16]	X,[Y]	[10,11],12
	19,[20,22.2]	10,13	[11],12,14	[16,27.2],29.2,30.2	[6,8],9.3	8
	14,[16,19]	[10]	[21]	[17]		
AZM4Q8	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

B24JWL	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
B4H92Q	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
B7A8JV	GlobalFiler™ (STRmix v2.4)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
BAC8FL	Investigator® 24plex QS					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
BHKVEE	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
BMLR9F	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
BNUXGA	Essplex SE QS (Gene Mapper ID-X v 1.2)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17		
4e		10,13,14	13,14,16	17,18		11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	
	14,16,17					



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

BP2CLU	GlobalFiler™ (TrueAllele)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
BRT7PQ	Identifiler® Plus					
		(17),20,23,(24)		15,15,(16),(17)	(10),11,12	
4e	10,11	10,13,(14)			10,11	(11),12,13
	(13),(15),16,18	11,14,(15),(17)	28,(31),32.2		X,X,(Y)	(10),(11),12,12
	19,19,(20),(22.2)				(6),(8),9.3,9.3	8,8
	14,14,(16),(19)					
BRTHBK	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8,8
	14,16,19	10			2	
BUL9K7	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
BV7CY6	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17 <sup>^</sup> ,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16 <sup>^</sup>	17,18	10,11	11 <sup>^</sup> ,12,13
	13 <sup>^</sup> ,15 <sup>^</sup> ,16 <sup>^</sup> ,18	11,14,15,17 <sup>^</sup>	28,31 <sup>^</sup> ,32.2	15,16	X,Y	10 <sup>^</sup> ,11 <sup>^</sup> ,12
	19,22.2 <sup>^</sup>	10,13	10,11 <sup>^</sup> ,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	NR		
C6E2HV	Investigator® 24plex QS (STRmix v2.9.1)					
	10,11,14,15,15.3,17.3,Q	19,20,22,23,Q	10,14,Q	14,15,17,Q	10,11,12,Q	
4e	9,10,11,Q	9,10,12,13,14,Q	12,13,14,16,Q	17,18,Q	10,11,Q	11,12,13,Q
	15,16,17,18,Q	10,11,13,14,17,Q	27,28,31.2,32.2,Q	14,15,16,Q	X,Y	11,12,Q
	18,19,20,Q			16,28.2,29.2,30.2,Q	6,9.3,Q	7,8,Q
	14,19,Q	10				
CEYEF7	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

CGNR8P	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
CV97FP	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8,8
	14,16,19	10			2	
D2VECU	PowerPlex® Fusion 5C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14		6,8,9.3	8
	14,16,19	10				
D77BEH	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
D9TXJQ	GlobalFiler™					
	11,15,[15.3],[17.3]	[17],20,23,[24]	[10],14	15,[17]	[10],11,12	
4e	10,11	10,13,[14]	13,14,[16]	[17],18	[10],11	[11],12,13
	[13],[15],16,18	11,14,[15],[17]	28,[31],32.2	15,[16]	X,[Y]	[10],[11],12
	19,[20],[22.2]			[16],29.2,30.2	[6],[8],9.3	8,8
	14,[16],[19]	10			2	
DA8BEE	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
DCCYVQ	Investigator® 24plex QS (TrueAllele)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10				

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

DGKM87	PowerPlex® Fusion 6C (STRMix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
DJCJXL	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
DN4T4D	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
DQPGHY	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
DUDV79	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
DY2M7P	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
DY3N29	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

E34P4Q	Investigator® 24plex QS					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10				
E3VZ86	Identifiler® Plus					
		20,23		15,15	11,12	
4e	10,11	10,13			10,11	12,13
	16,18	11,14	28,32.2		X,X	12,12
	19,19				9.3,9.3	8,8
	14,14					
E6PKK4	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
ECP2VA	PowerPlex® Fusion 6C (STRmix)					
	11,15	20,23	14,14	15,15	11,12	
4e	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
EKKMRG	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
ENGVYQ	GlobalFiler™ (STRmix 2.4)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
EPD4D3	PowerPlex® Fusion 6C (STRmix)					
	11,15	20,23	14,14	15,15	11,12	
4e	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

ETBPZY	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
F2F7WW	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
FAXC2G	Investigator® 24plex					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10				
FDVN2M	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8,8
	14,16,19	10			2	
FEAD6Y	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
FEVX3J	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
FFHHK9	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

FGAL8N	Identifiler® Plus					
		(17),20,23,(24)		15,15,(17)	(10),11,12	
4e	10,11	10,13,(14)			10,11	(11),12,13
	(13),(15),16,18	11,14,(15),(17)	28,(31),32.2		X,X,(Y)	(10),(11),12,12
	19,19,(20),(22.2)				(6),(8),9.3,9.3	8,8
	14,14,(16),(19)					
FGUEXZ	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	NT
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	NT	NT	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	NT	NT	2	
FMLEHM	NGM					
	11,15	20,23	14	15		
4e		10,13	13,14	18		12,13
	16,18	11,14	28,32.2	15	X	
	19				9.3	
	14					
FMY4LZ	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
FQ86Z6	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
FQMLXJ	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
FT6UUX	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

FTMQEK	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	-
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	-	-	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	-	-	2	
FVXCLY	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,16,17	10,11,12,13	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16,17	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,18,19	10			2	
FYFYTC	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
G2H7MP	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
G3CU6K	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	[10],14	15,[17]	10,11,12	
4e	10,11	10,13,[14]	13,14,[16]	17,18	10,11	[11],12,13
	13,15,16,18	11,14,[15],[17]	28,[31],32.2	15,16	X,[Y]	[10],[11],12
	19,[20],[22.2]			[16],[27.2],29.2,30.2	[6],[8],9.3	8
	14,[16],[19]	10			2	
G6FRAL	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8,8
	14,16,19	10			2	
GDBMCP	Investigator® 24plex QS (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10				

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

GKVQJT	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
GM29JA	GlobalFiler™					
	11,15	20,23	[10],14	15	[10],11,[12]	
4e	10,11	10,[13],[14]	14	[17],18	[10],11	[12],13
	[16],18	[11],14,[15]	28,[31],32.2	15,16	X,X	[10],12
	19,19	NR	NR	29.2,[30.2]	9.3	8
	14,[19]	NR	NR	NR	2	
GM3W8E	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
GQTJBY	GlobalFiler™ (Bullet Proof Sentry)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
GQYLDZ	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
GXZNNT	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
GYHNXA	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

H2NYP3	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
H4JEMT	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8,8
	14,16,19	10			2	
H8Y9YJ	GlobalFiler™ (GeneMapper ID-X 1.5)					
	11,15,[15.3,17.3]	[17],20,23,[24]	[10],14,14	15,15,[17]	[10],11,12	
4e	10,11	10,13,[14]	13,14,[16]	[17],18,18	10,11	[11],12,13
	[13,15],16,18	11,14,[15,17]	28,[31],32.2	15,15,[16]	X,X,[Y]	[10,11],12,12
	19,19,[20,22.2]			[16,27.2],29.2,30.2	[6,8],9.3,9.3	8,8
	14,14,[16,19]	[10]			[2]	
H9A22Y	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
4e	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
H9E37K	GlobalFiler™					
	11,15,[15.3],[17.3]	[17],20,23,[24]	[10],[14]	15,[17]	[10],11,12	
4e	[10],[11]	10,13,[14]	13,14,[16]	[17],[18]	[10],[11]	[11],12,13
	[13],[15],16,18	11,14,[15],[17]	28,[31],32.2	[15],[16]	X,[Y]	[10],[11],12
	19,[20],[22.2]			[16],[27.2],29.2,30.2	[6],[8],9.3	8
	14,[16],[19]	[10]			[2]	
HG9BNQ	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8,8
	14,16,19	10			2	
HJEVCQ	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8,8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

HPG2RU	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
HPZNNQ	GlobalFiler™ (STRmix 2.4)					
	11,15,15.3,17.3	17,20,23,24	10,13,14	14,15,17	10,11,12	
4e	10,11	10,13,14	12,13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	27,28,31,31.2,32.2	14,15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
HRQ3W2	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
HTJXJA	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
HUEGKB	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
HUTQRQ	GlobalFiler™ (STRmix 2.4)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
HXR4DU	GlobalFiler™					
	11,15	20,23	14	15	11,12	
4e	10,11	10,13	13,14	18	10,11	12,13
	16,18	11,14	28,32.2	15	X,X	12
	19			29.2,30.2	9.3	8
	14	NM			NM	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

JA4YXC	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
JCN3FH	Identifiler® Plus					
		17,20,23,24		15,17	10,11,12	
4e	10,11	10,13,14			10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2		X,X,Y	10,11,12
	19,20,22.2				6,8,9.3	8,8
	14,16,19					
JEXVKH	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
JHGVMR	GlobalFiler™, MiniFiler (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
JKXJ8	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
JNMM8A	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
JPXHK2	GlobalFiler™ (STRmix V2.4.06)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

JRL3HJ	GlobalFiler™ (STRmix v2.5)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
JWFR9X	PowerPlex® Fusion 6C					
	11,15#	20,23#	14#	15#	11,12#	
4e	10,11	10,13#	13,14	18#	10,11	12,13#
	16,18#	11,14#	28,32.2#	15#	X#	12#
	19#	10,13	12,14#	29.2,30.2#	9.3#	8
	14#	NR#	NR#	NR#		
K27KGJ	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
K6T7MD	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
K8CA74	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
4e	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
K8UAAT	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13,14
	13,15,16,18	11,14,15,17	28,31,32.2	15,16,17	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
KEUHQU	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

KFNBJR	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
KFQ9KF	PowerPlex® Fusion 6C (STRmix 2.6.2)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,[17]	[10],11,12	
4e	10,[11]	10,13,[14]	13,14,[16]	17,18	10,11	[11],12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,[Y]	[10],[11],12
	19,[20],[22.2]	[10],13	[10],[11],12,14	16,[27.2],29.2,30.2	[6],[8],9.3	8
	14,[16],[19]	10	21	17		
KR47R6	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
KTBHGT	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
KYLH66	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
L29GW9	GlobalFiler™ (STRmix)					
	10,11,14,15,15.3,17.3	17,19,20,22,23,24	10,13,14	14,15,16,17	10,11,12	
4e	9,10,11	9,10,12,13,14	12,13,14,16	17,18	10,11	11,12,13
	13,15,16,17,18	11,13,14,15,17	27,28,31,31.2,32.2	14,15,16	X,Y	10,11,12
	18,19,20,22.2			16,27.2,28.2,29.2,30.2	6,8,9.3	8
	14,16,18,19	10			2	
L3TQ9T	PowerPlex® 5C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	--
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	--	6,8,9.3	8
	14,16,19	10	--	--	--	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

L4ATAZ	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
L9NGTW	GlobalFiler™ (STR mix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
LDFFDU	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
LEPH7K	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
LGUFBL	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
LJZQBV	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
LKX4XN	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

LMRJVE	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
LP88ZJ	PowerPlex® Fusion 5C					
	11,15,15.3,[17.3]	[17],20,23,[24]	[10],14	15,[17]	[10],11,[12]	
4e	10,[11]	10,[13,14]	13,14,[16]	17,18	[10],11	[11],12,13
	[13],15,16,18	11,14,[15,17]	28,[31,32.2]	15,[16]	X,[Y]	[10,11],12
	19,[20,22.2]	[10],13	[10],11,12,14		[6,8],9.3	8
	14,[16,19]	10				
LPRWCC	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
LQ7DBC	GlobalFiler™					
	11,15,[15.3,17.3]	[17],20,23,[24]	[10],14	15,[17]	[10],11,12	
4e	10,11	10,13,[14]	13,14,[16]	[17],18	10,11	[11],12,13
	[13,15],16,18	11,14,[15,17]	28,[31],32.2	15,[16]	X,[Y]	[10,11],12
	19,[20,22.2]			[16,27.2],29.2,30.2	[6,8],9.3	8
	14,[16,19]	[10]			[2]	
LU3867	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
LZNZ4Y	GlobalFiler™ (STRmix v.2.4.06)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
M6H8AE	Identifiler® Plus					
		17,20,23,24		15,17	10,11,12	
4e	10,11	10,13,14			10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2		X,X,Y	10,11,12
	19,20,22.2				6,8,9.3	8,8
	14,16,19					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

M6YEFW	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
M8MT47	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
M9XMRT	PowerPlex® ESI 16 FAST SYSTEM (LR MIX STUDIO VERSION 2.0.0 COMMUNITY EDITION)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17		
4e		10,13,14	13,14,16	17,18		11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	
	19,20,22.2				6,8,9.3	
	14,16,19					
MB438C	Identifiler® Plus					
		17,20,23,24		15,17	10,11,12	
4e	10,11	10,13,14			10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2		X,Y	10,11,12
	19,20,22.2				6,8,9.3	8
	14,16,19					
MBL6Z7	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
MG88YV	GlobalFiler™ (STRmix v 2.4.06)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
MHLP4M	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

MMFKML	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
MP2CUH	PowerPlex® Fusion 5C					
	11,15,[15.3,17.3]	[17],20,23,[24]	[10],14	15,[17]	[10],11,12	
4e	10,[11]	10,[13,14]	13,14,[16]	[17],18	[10],11	[11,12],13
	[13,15],16,18	11,14,[15,17]	28,[31],32.2	15,[16]	X,[Y]	[10,11],12
	19,[20,22.2]	10,13	[10,11],12,14		[6,8],9.3	8
	14,[16,19]	10				
MV87ND	Identifiler® Plus					
		20,23		15,15	11,12	
4e	10,11	10,13			10,11	12,13
	16,18	11,14,[17]	28,32.2		X,X	12,12
	19,19				[6],[8],9.3,9.3	8,8
	14,14					
N2C3CK	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
N3QLY3	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
NCEHZ4	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
NGBYKB	GlobalFiler™ (STRmix v2.5)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

NNRHUC	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
NVBB39	PowerPlex® 21 (STRmix v2.7)					
	11,15,15.3,17.3	17,20,23,24		15,17	10,11,12	12,14,19
4e	10,11	10,13,14		17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2		X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14		6,8,9.3	8
	14,16,19					
P2E3X7	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
P4FE9C	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
PBJC3A	PowerPlex® Fusion 6C (STRmix)					
	11,15,[15.3],17.3	17,20,23,[24]	10,14	15,[17]	[10],11,12	
4e	10,[11]	10,[13],[14]	13,14,[16]	17,18	10,11	[11],12,13
	13,15,16,18	11,14,15,17	28,[31],32.2	15,16	X,[Y]	[10],[11],12
	19,[20],[22.2]	[10],13	[10],11,12,14	16,27.2,29.2,30.2	[6],[8],9.3	8
	14,[16],[19]	10	21	17		
PC8PKT	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
PFTE3K	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

PLA2MN	GlobalFiler™ (STRmix v. 2.4)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
PQNRWP	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
PZHNBD	GlobalFiler™ (STRmix v2.5)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
Q4RFKD	PowerPlex® Fusion 6C (Bulletproof Sentry)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
Q7HMY9	GlobalFiler™ (STRmix v2.5)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
Q7KALN	GlobalFiler™					
	[11,15],15.3,17.3	17,[20,23],24	10,[14]	15,17	10,11,[12]	
4e	10,[11]	10,13,14	13,14,16	17,[18]	[10],11	11,[12],13
	13,15,[16,18]	11,14,15,17	28,31,[32.2]	[15],16	X,Y	10,11,12
	19,20,22.2			16,27.2,[29.2,30.2]	6,8,9.3	8
	14,16,19	10			2	
Q9ALD7	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,13,14	14,15,16,17	10,11,12	
4e	9,10,11	9,10,12,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	27,28,31,32.2	14,15,16	X,Y	10,11,12
	18,19,20,22.2			16,27.2,28.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

QAE79T	Identifiler® Plus					
		17,20,23,24		15,17	10,11,12	
4e	10,11	10,13,14			10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2		X,Y	10,11,12
	19,20,22.2				6,8,9.3	8
	14,16,19					
QAHLNE	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
QFTPK9	GlobalFiler™ (STRmix v2.6)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
QHUQMQ	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
QKZFPZ	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,13,14	14,15,17	10,11,12	
4e	10,11	10,13,14	12,13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14	28,31.2,32.2	14,15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,28.2,29.2,30.2	6,8,9.3	8
	14,16	10				
QLCYNC	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
QPCBJC	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

QWVC4V	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
QYU4HL	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	N/T
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	N/T	N/T	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	N/T	N/T	2	
R96LRW	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,16,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,18,19	10			2	
RB6QD4	Investigator® 24plex					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10				
RJHVAV	PowerPlex® Fusion 6C (STRmix V2.5.11)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
RKFWKT	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
RNVHX9	PowerPlex® Fusion 5C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14		6,8,9.3	8
	14,16,19	10				

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

RP7H3F	Investigator® 24plex QS (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10				
RPQ24F	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
RVWTCD	Investigator® 24plex QS (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10				
RWQK4Q	GlobalFiler™ (Bulletproof Sentry)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
RWWJR9	PowerPlex® Fusion 6C (STRmix)					
	11,15,[15.3],17.3	17,20,23,[24]	[10],14	15,[17]	[10],11,12	
4e	10,[11]	10,13,[14]	13,14,[16]	17,18	10,11	[11],12,13
	13,15,16,18	11,14,[15],[17]	28,[31],32.2	15,[16]	X,[Y]	[10],[11],12
	19,[20],[22.2]	10,13	[10],[11],12,14	[16],[27.2],29.2,30.2	[6],[8],9.3	8
	14,[16],[19]	10	21	17		
RX6RY8	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
RZNZVL	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

RZRHXQ	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
T43YLL	PowerPlex® Fusion 5C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14		6,8,9.3	8
	14,16,19	10				
T4RYW7	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
T6FJEW	PowerPlex® Fusion 6C (STRmix v2.5)					
	11,15	20,23	14,14	15,15	11,12	
4e	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
T78M2B	Identifiler® Plus					
		17,20,23,24		15,17	10,11,12	
4e	10,11	10,13,14			10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2		X,X,Y	10,11,12
	19,20,22.2				6,8,9.3	8,8
	14,16,19					
TBNWA9	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
TFHVX6	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

TJT4P9	GlobalFiler™					
	11,15	20,23	14,14	15,15	11,12	
4e	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19			29.2,30.2	9.3,9.3	8,8
	14,14					
TMHEVU	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
TMJ48D	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
TMTDV6	Identifiler®, Investigator® 24plex QS					
	11,15	20,23	14,14	15,15	11,12	N/A
4e	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	N/A	N/A	29.2,30.2	9.3,9.3	8,8
	14,14	N/A	N/A	N/A	N/A	
TNQMR8	Identifiler® Plus					
		17,20,23,24		15,17	10,11,12	
4e	10,11	10,13,14			10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2		X,Y	10,11,12
	19,20,22.2				6,8,9.3	8
	14,16,19					
TNURZQ	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
TPK7XE	GlobalFiler™ (STRmix 2.4)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

TQWYWN	PowerPlex® Fusion 6C					
	11,15	20,23	14,14	15,15	11,12	
4e	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
TUKDKX	GlobalFiler™					
	11,15,[15.3],[17.3]	[17],20,23,[24]	[10],14	15,[17]	[10],11,12	
4e	10,[11]	10,[13],[14]	[13],14,[16]	[17],18	10,11	[11],12,13
	[13],[15],16,18	11,14,[15],[17]	28,[31],32.2	15,[16]	X,[Y]	[10],[11],12
	19,[20],[22.2]			[16],[27.2],29.2,30.2	[6],[8],9.3	8,8
	14,[16],[19]	10			2	
TUL294	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
TW9Z2R	Identifiler® Plus, PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
TXYXLR	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
TYCHCG	GlobalFiler™					
	11,15,[15.3,17.3]	[17],20,23,[24]	[10],14	15,[17]	[10],11,12	
4e	10,11	10,13,[14]	13,14,[16]	[17],18	10,11	[11],12,13
	[13,15],16,18	11,14,[15,17]	28,[31],32.2	15,16	X,[Y]	[10,11],12
	19,[20,22.2]			[16,27.2],29.2,30.2	[6,8],9.3	8
	14,[16,19]	[10]			[2]	
TZMK3L	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

U28XVN	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
U42G8M	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
UEZC4X	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
UFCUFB	PowerPlex® Fusion 5C					
	11,15,[15.3,17.3]	[17,20],23,[24]	[10],14	15,[17]	[10],11,12	
4e	10,11	10,13,[14]	13,14	[17],18	10,11	[11],12,13
	[13,15],16,18	11,14,[15,17]	28,[31],32.2	15,[16]	X,[Y]	[10,11],12
	19,[22.2]	10,13	[10,11],12,14		[6,8],9.3	8
	14,[16,19]	10				
UKC24U	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
UUFBBJ	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
UVRWZK	Investigator® 24plex (STRmix)					
	11,15,[15.3],[17.3]	[17],20,23,[24]	[10],14	15,[17]	[10],11,12	
4e	10,11	10,13,[14]	13,14,[16]	[17],18	[10],11	[11],12,13
	[13],[15],16,18	11,14,[15],[17]	28,[31],32.2	15,[16]	X,[Y]	[10],[11],12
	19,[20],[22.2]			[16],[27.2],29.2,30.2	[6],[8],9.3	8
	14,[16],[19]	10				

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

UX9LYN	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
V3LJ8B	GlobalFiler™ (STRmix 2.4)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
V4HTLM	PowerPlex® Fusion 6C (STRmix 2.5)					
	11,15	20,23	14,14	15,15	11,12	
4e	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9,3,9,3	8,8
	14,14					
VDM3QQ	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10	21	17		
VGPU84	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
VJTPNL	GlobalFiler™ (STRmix v.2.8)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,19.2,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	
VKKR9F	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

VXARXX	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
VZF29F	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8,8
	14,16,19	10			2	
W26VB3	GlobalFiler™ (STRmix v2.5)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
W9DZNV	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
WBDCZM	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
WGH4C7	GlobalFiler™ (STRmix v2.5)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
WRGRGG	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

WTW2HU	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
X2FXLE	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
X6G8KN	PowerPlex® Fusion 6C (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
X9KTNM	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
XAFCKM	Identifiler® Plus					
		[17],20,23,[24]		15,[17]	[10],11,12	
4e	10,11	10,13,[14]			10,11	[11],12,13
	[13],[15],16,18	11,14,[15],[17]	28,[31],32.2		X,[Y]	[10],[11],12
	19,[20]				[6],[8],9.3	8
	14,[16],[19]					
XAG4LC	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8,8
	14,16,19	10			2	
XBNPPH	GlobalFiler™ (STRmix v2.4)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

XCWVBJ	ESI-17 FAST						
	11,15	20,23	(10),14	15			
	10,13		13,14	18		12,13	
	16,18	11,14,(15),(17)	28,32.2	15	X,(Y)		
	19			(16),29.2,30.2	(8),9.3		
	14						
XDFNFM	PowerPlex® 21 (STRmix)						
	11,15,15.3,17.3,18.3	17,20,23,24,25		15,17	10,11,12	12,14,19	
	10,11		10,13,14	17,18	10,11	11,12,13,15	
	13,15,16,18	11,14,15,17	28,31,32.2		X,Y	10,11,12	
	19,20,22.2	10,13	10,11,12,14		6,8,9.3	8,8	
	14,16,19						
XGV3ZM	PowerPlex® Fusion 6C						
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12		
	10,11		10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12	
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8	
	14,16,19	10	21	17			
XH9JBF	GlobalFiler™						
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12		
	10,11		10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12	
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8	
	14,16,19	10		2			
XKDC28	PowerPlex® 6C (BP Sentry)						
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12		
	10,11		10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12	
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8	
	14,16,19	10	21	17			
XKZNWZ	GlobalFiler™ (STRmix)						
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12		
	10,11		10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12	
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8	
	14,16,19	10		2			
XTQ8CU	PowerPlex® Fusion 6C (STRmix)						
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12		
	10,11		10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12	
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8	
	14,16,19	10	21	17			

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

XVXFC	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
XYZAEP	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
Y8NMTE	GlobalFiler™ (STRmix™)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
YAQPB4	GlobalFiler™					
	11,15,[15.3],[17.3]	[17],20,23,[24]	[10],14	15,[17]	[10],11,12	
4e	10,[11]	10,13,[14]	13,14,[16]	[17],18	10,11	[11],12,13
	[13],[15],16,18	11,14,[15],[17]	28,[31],32.2	15,[16]	X,[Y]	[10],[11],12
	19,[20],[22.2]			[16],[27.2],29.2,30.2	[6],[8],9.3	8,8
	14,[16],[19]	10			2	
YBMYPE	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
YFFACY	Identifiler®, Investigator® 24plex QS, FlexPlex27					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	N/A
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,[Y]	10,11,12
	19,20,22.2	N/A	N/A	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	N/A	N/A	N/A	
YLMUKP	PowerPlex® Fusion 6C (STRmix)					
	11,15	20,23	14,14	15,15	11,12	
4e	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

YQ28PH	PowerPlex® Fusion 6C (STRmix v2.5)					
	11,15	20,23	14,14	15,15	11,12	
4e	10,11	10,13	13,14	18,18	10,11	12,13
	16,18	11,14	28,32.2	15,15	X,X	12,12
	19,19	10,13	12,14	29.2,30.2	9.3,9.3	8,8
	14,14					
YXGW4X	Investigator® 24plex					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10				
YXYYXC	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
Z2ZD4G	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16,17	X,Y	10,11,12
	19,19.2,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
Z3RFNC	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
Z7PYNP	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
Z9W9UZ	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4e - STR Results

ZBG79H	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
ZBZ2QK	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17^,20,23,24^	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15^,17^	28,31,32.2	15,16	X,Y	10^,11,12
	19,20,22.2	10,13	10^,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
ZD4UHX	Investigator® 24plex QS					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	N/A
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	N/A	N/A	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	N/A	N/A	N/A	
ZK7WTP	Investigator® 24plex					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10				
ZNMBB4	PowerPlex® Fusion 6C					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	10,13	10,11,12,14	16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10	21	17		
ZVJBGJ	GlobalFiler™					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4e	10	10,13,14	13,14,16	17,18	11	11,12,13
	13,15,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

22TQ4E	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
243KYE	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
2D3EMC	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
2FD9WJ	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
2HHXYR	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		
2N6LVH	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	20,21	17		
2QB3ZF	PowerPlex® 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

2QB99M	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
2R6WRH	PowerPlex® Fusion 6C (STRMix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	20,21	17		
2RNMRP	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
3BRW47	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
3GGG62	NGM SElect					
	15.3,17.3	17,24	10,10	15,17		
4sp		10,14	14,16	17,17		11,13
	13,15	15,17	28,31	16,16	X,Y	
	20,22.2			16,27.2	6,8	
	16,19					
3JPK4J	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
3N2JL4	PowerPlex® Fusion 5C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11		6,8	8
	16,19	10				

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

3Q3PKH	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
3RWD4D	GlobalFiler™ (STRmix v. 2.4)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
3WCRZK	PowerPlex® Fusion 6C (STRmix v2.5)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		
43E3RB	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
44CJVZ	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		
487EJZ	PowerPlex® ESI17 FAST					
	15.3,17.3	17,24	10,10	15,17		
4sp		10,14	14,16	17,17		11,13
	13,15	15,17	28,31	16,16	X,Y	
	20,22.2			16,27.2	6,8	
	16,19					
49MC7Y	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

4AGZNU	GlobalFiler™ (STRmix)					
	11,14.3,15.3,16.3,17.3	16,17,18,23,24	9,10,14	14,15,16,17	9,10,11	
4sp	9,10	9,10,13,14	13,14,15,16	16,17	10,11	10,11,12,13
	12,13,14,15	14,15,16,17	27,28,30,31	15,16,17	X,Y	9,10,11
	19,20,21.2,22.2			15,15.2,16,26.2,27.2	6,8,9,3	8
	15,16,18,19	9,10			2	
4C3HQR	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
4E2J7A	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
4EUZLL	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
4H2U3A	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
4M8RBJ	GlobalFiler™					
	[11],15.3,17.3	17,[23],24	10,[14]	15,17	10,11,[12]	
4sp	10,[11]	10,14	14,16	17	11	11,[12],13
	13,15,[18]	[14],15,17	28,31	16	X,Y	10,11,[12]
	20,22.2			16,27.2,[30.2]	6,8	8
	[14],16,19	10			2	
4MG9YG	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

4NCR2H	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
4P9CLW	Identifiler® Plus					
		17,24		15,17	10,11	
4sp	10,10	10,14			11,11	11,13
	13,15	15,17	28,31		X,Y	10,11
	20,22.2				6,8	8,8
	16,19					
4T9DTK	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
4TA2FQ	GlobalFiler™ (STRmix)					
	14.3,15.3,16.3,17.3	16,17,23,24	9,10,14	14,15,16,17	9,10,11	
4sp	9,10,11	9,10,13,14	13,14,15,16	16,17	10,11	10,11,12,13
	12,13,14,15,16	14,15,16,17	27,28,30,31	15,16,17	X,Y	9,10,11
	19,20,21.2,22.2			15,15.2,16,26.2,27.2	6,8	8
	15,16,18,19	9,10			2	
4TQC2C	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
4U3V3A	GlobalFiler™ (STRmix v. 2.4)					
	15.3,17.3	17,24	10,10	15,17	10,11	NT
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	NT	NT	16,27.2	6,8	8,8
	16,19	10	NT	NT	2	
4VEUCA	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

62JTKE	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22			16,27.2	6,8	8,8
	16,19	10			2	
66YDXU	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	-
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	-	-	16,27.2	6,8	8
	16,19	10	-	-	2	
688GWC	PowerPlex® Fusion 6C (STRmix v. 2.5.11)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		
6C2F82	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
6DCF7F	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
6DE24G	PowerPlex® 21 (STRmix v2.7)					
	15.3,17.3	17,24		15,17	10,11	12,14
4sp	10,10	10,14		17,17	11,11	11,13
	13,15	15,17	28,31		X,Y	10,11
	20,22.2	13,13	10,11		6,8	8,8
	[14],16,19					
6J3NYM	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

6M3W6H	GlobalFiler™					
	15.3,17.3	17,24	10,[14]	15,17	10,11,[12]	
4sp	10	10,14	[13],14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
6NVNE4	PowerPlex® Fusion 5C (STRMix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11		6,8	8
	16,19	10				
6V9TTV	Identifiler® Plus					
		17,24		15,17	10,11	
4sp	10	10,14			11	11,13
	13,15	15,17	28,31		X,Y	10,11
	20,22.2				6,8	8
	16,19					
6YARC2	GlobalFiler™ (STRmix v 2.5.11)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
76ZETR	GlobalFiler™ (STRmix)					
	15.3,16.3,17.3	17,23,24	10	14,15,16,17	10,11	
4sp	9,10	9,10,13,14	13,14,15,16	16,17	10,11	11,12,13
	12,13,14,15	14,15,16,17	28,31	15,16,17	X,Y	10,11
	19,20,21.2,22.2			15,16,26.2,27.2	6,8,9,3	8
	15,16,18,19	10			2	
78HQEB	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
78LFBL	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

7MYR2T	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
7V99M8	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
7VNCCT	Identifiler® Plus					
		17,24		15,17	10,11	
4sp	10	10,14			11	11,13
	13,15	15,17	28,31		X,Y	10,11
	20,22.2				6,8	8
	16,19					
7YPLDM	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	[14],16,19	10	21	17		
834PGB	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
84EEX2	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
86EK89	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

8EWZAB	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
8NPD8P	GlobalFiler™ (STRmix)					
	15.3,17.3	17,20,24	10	14,15,16,17	10,11	
4sp	9,10	10,13,14	13,14,15,16	16,17	10,11	11,12,13
	13,14,15	15,17	28,30,31	15,16,17	X,Y	10,11
	20,22.2			15,16,26.2,27.2	6,8	8
	16,18,19	10			2	
8V3HQA	PowerPlex®, ESI-17					
	15.3,17.3	17,24	10,10	15,17		
4sp		10,14	14,16	17,17		11,13
	13,15	15,17	28,31	16,16	X,Y	
	20,22.2			16,27.2	6,8	
	16,19					
8YHT3R	PowerPlex® ESI-17					
	15.3,17.3	17,24	10,10	15,17		
4sp		10,14	14,16	17,17		11,13
	13,15	15,17	28,31	16,16	X,Y	
	20,22.2			16,27.2	6,8	
	16,19					
93KUWN	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
97E6FZ	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
9AULN6	GlobalFiler™ (STRmix 2.4)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

9JQFYA	Investigator® 24plex QS					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10				
9K3ZZ8	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		
9LVNPU	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8,9.3	8
	16,19	10			2	
9PVZKU	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11,12
	19,20,22.2			16,27.2	6,8	8
	14,16,19	10			2	
9ZA76B	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
9ZJTWQ	GlobalFiler™ (STRmix v2.5)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
A3WB78	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

A4N6WV	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
A7TXK3	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	NT	NT	16,27.2	6,8	8,8
	16,19	10	NT	NT	2	
A97GY7	PowerPlex® Fusion 6C (STRmix V2.5)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		
A9G82V	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
ALRLEF	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
ANECAT	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
AYYUUD	PowerPlex® Fusion 6C					
	[11,15],15.3,17.3	17,[20,23],24	10,[14]	15,17	10,11	
4sp	10,[11]	10,[13],14	[13],14,16	17,[18]	[10],11	11,[12],13
	13,15,[16,18]	[11,14],15,17	28,31,[32.2]	[15],16	X,Y	10,11,[12]
	[19],20,22.2	[10],13	10,11,[14]	16,27.2,[29.2,30.2]	6,8,[9.3]	8
	[14],16,19	10	21	17		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

AZM4Q8	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
B24JWL	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
B4H92Q	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11,12	
4sp	10	10,14	14,16	17	11	11,13
	13,15	11,14,15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
B7A8JV	GlobalFiler™ (STRmix v2.4)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
BAC8FL	Investigator® 24plex QS					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
BHKVEE	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
BMLR9F	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

BNUXGA	Essplex SE QS (Gene Mapper ID-X v 1.2)					
	15.3,17.3	17,24	10,10	15,17		
4sp		10,14	14,16	17,17		11,13
	13,15	15,17	28,31	16,16	X,Y	
	20,22.2			16,27.2	6,8	
	16,19					
BP2CLU	GlobalFiler™ (TrueAllele)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
BRT7PQ	Identifiler® Plus					
		17,24		15,17	10,11	
4sp	10,10	10,14			11,11	11,13
	13,15	15,17	28,31		X,Y	10,11
	20,22.2				6,8	8,8
	16,19					
BRTHBK	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
BUL9K7	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
BV7CY6	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
C6E2HV	Investigator® 24plex QS (STRmix v2.9.1)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10				

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

CEYEF7	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
CGNR8P	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
CV97FP	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
D2VECU	PowerPlex® Fusion 5C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11		6,8	8
	16,19	10				
D77BEH	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
D9TXJQ	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
DA8BEE	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

DCCYVQ	Investigator® 24plex QS (TrueAllele)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10				
DGKM87	PowerPlex® Fusion 6C (STRMix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	20,21	17		
DJCJXL	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
DN4T4D	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
DQPGHY	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
DUDV79	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
DY2M7P	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

DY3N29	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11,[12]	
4sp	10	10,[13],14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2,[28.2]	6,8	8
	[14],16,19	10			2	
E34P4Q	Investigator® 24plex QS					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10				
E3VZ86	Identifiler® Plus					
		17,24		15,17	10,11	
4sp	10,10	10,14			11,11	11,13
	13,15	15,17	28,31		X,Y	10,11
	20,22.2				6,8	8,8
	16,19					
E6PKK4	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
ECP2VA	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		
EKKMRG	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
ENGVYQ	GlobalFiler™ (STRmix 2.4)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

EPD4D3	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		
ETBPZY	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
F2F7WW	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
FAXC2G	Investigator® 24plex					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10				
FDVN2M	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
FEAD6Y	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
FEVX3J	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

FFHHK9	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		
FGAL8N	Identifiler® Plus					
		17,24		15,17	10,11	
4sp	10,10	10,14			11,11	11,13
	13,15	15,17	28,31		X,Y	10,11
	20,22.2				6,8	8,8
	16,19					
FGUEXZ	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	NT
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	NT	NT	16,27.2	6,8	8,8
	16,19	10	NT	NT	2	
FMLEHM	NGM					
	15.3,17.3	17,24	10	15,17		
4sp		10,14	14,16	17		11,13
	13,15	15,17	28,31	16	X,Y	
	20,22.2				6,8	
	16,19					
FMY4LZ	GlobalFiler™					
	15.3,17.3	17,24	10,[14]	15,17	10,11,[12]	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11,[12]
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
FQ86Z6	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	20,21	17		
FQMLXJ	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

FT6UUX	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
FTMQEK	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	-
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	-	-	16,27.2	6,8	8
	16,19	10	-	-	2	
FVXCLY	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,11,14	14,16	17	11	11,13
	13,15	13,15,16,17	28,31	16,17	X,Y	10,11
	20,22.2,23.2			16,17,27.2	6,8	8
	16,17,19	10			2	
FYFYTC	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
G2H7MP	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	17	28,31	16	X,Y	10,11
	20,22.2			16	6,8	8
	19	10			2	
G3CU6K	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
G6FRAL	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

GDBMCP	Investigator® 24plex QS (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10				
GKVQJT	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
GM29JA	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,[8]	8,8
	16,19	10			2	
GM3W8E	GlobalFiler™ (STRmix)					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4sp	10,11	10,14	13,14,16	17,18	11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2			16,27.2,29.2,30.2	6,8,9.3	8
	14,16,19	10			2	
GQTJBY	GlobalFiler™ (Bullet Proof Sentry)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
GQYLDZ	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
GXZNNT	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

GYHNXA	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
H2NYP3	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
H4JEMT	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
H8Y9YJ	GlobalFiler™ (GeneMapper ID-X 1.5)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
H9A22Y	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		
H9E37K	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
HG9BNQ	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

HJEVCQ	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
HPG2RU	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
HPZNNQ	GlobalFiler™ (STRmix 2.4)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
HRQ3W2	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
HTJXJA	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
HUEGKB	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
HUTQRQ	GlobalFiler™ (STRmix 2.4)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

HXR4DU	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
JA4YXC	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
JCN3FH	Identifiler® Plus					
		17,24		15,17	10,11	
4sp	10,10	10,14			11,11	11,13
	13,15	15,17	28,31		X,Y	10,11
	20,22.2				6,8	8,8
	16,19					
JEXVKH	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
JHGVR	GlobalFiler™, MiniFiler (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
JKJXJ8	GlobalFiler™					
	15.3,17.3	17,23,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
JNMM8A	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10,10,[14]	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	[10],13,13	10,11	16,27.2,[29.2]	6,8,[9.3]	8,8
	[14],16,19	10	21	17		



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

JPXHK2	GlobalFiler™ (STRmix V2.4.06)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
JRL3HJ	GlobalFiler™ (STRmix v2.5)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
JWFR9X	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
K27KGJ	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
K6T7MD	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
K8CA74	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		
K8UAAT	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

KEUHQU	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
KFNBJR	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
KFQ9KF	PowerPlex® Fusion 6C (STRmix 2.6.2)					
	15.3,17.3	17,24	10,[14]	15,17	10,11,[12]	
4sp	10,[11]	10,[13],14	14,16	17,[18]	11	11,[12],13
	13,15	15,17	28,31	16	X,Y	10,11
	[19],20,22.2	[10],13	10,11	16,27.2	6,8	8
	[14],16,19	10	21	17		
KR47R6	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
KTBHGT	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
KYLH66	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
L29GW9	GlobalFiler™ (STRmix)					
	14.3,15.3,16.3,17.3	16,17,23,24	9,10	14,15,16,17	9,10,11	
4sp	9,10	9,10,13,14	13,14,15,16	16,17,18	10,11	10,11,12,13
	12,13,14,15	14,15,16,17	27,28,30,31	15,16,17	X,Y	9,10,11
	19,20,21.2,22.2			15,15.2,16,26.2,27.2	6,8	8
	15,16,18,19	9,10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

L3TQ9T	PowerPlex® 5C					
	15.3,17.3	17,24	10	15,17	10,11	--
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	--	6,8	8
	16,19	10	--	--	--	
L4ATAZ	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
L9NGTW	GlobalFiler™ (STR mix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
LDFFDU	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
LEPH7K	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8,9.3	8
	16,19	10			2	
LGUFBL	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
LJZQBV	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

LKX4XN	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
LMRJVE	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
LP88ZJ	PowerPlex® Fusion 5C					
	15.3,17.3	17,24	10	15,17	10,[11]	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,[31]	16	X,Y	10,11
	20,[22.2]	13	10,[11]		6,8	8
	16,19	10				
LPRWCC	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
LQ7DBC	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
LU3867	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
LZNZ4Y	GlobalFiler™ (STRmix v.2.4.06)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

M6H8AE	Identifiler® Plus					
		17,24		15,17	10,11	
4sp	10,10	10,14			11,11	11,13
	13,15	15,17	28,31		X,Y	10,11
	20,22.2				6,8	8,8
	16,19					
M6YEFW	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
M8MT47	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
M9XMRT	PowerPlex® ESI 16 FAST SYSTEM (LR MIX STUDIO VERSION 2.0.0 COMMUNITY EDITION)					
	15.3,17.3	17,24	10	15,17		
4sp		10,14	14,16	17		11,13
	13,15	15,17	28,31	16	X,Y	
	20,22.2				6,8	
	16,19					
MB438C	Identifiler® Plus					
		17,24		15,17	10,11	
4sp	10	10,14			11	11,13
	13,15	15,17	28,31		X,Y	10,11
	20,22.2				6,8	8
	16,19					
MBL6Z7	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
MG88YV	GlobalFiler™ (STRmix v 2.4.06)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

MHLP4M	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
MMFKML	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
MP2CUH	PowerPlex® Fusion 5C					
	[15.3],17.3	17,24	10	15,17	10	
4sp	10	[10],14	14,[16]	17	11	11,13
	[13],15	15,[17]	28,31	16	[X],Y	[10],11
	20,22.2	13	10,11		6,[8]	8
	16,[19]	10				
MV87ND	Identifiler® Plus					
		17,24		15,17	10,11	
4sp	10,10	10,14			11,11	11,13
	13,15	15,17	28,31		X,Y	10,11
	20,22.2				6,8	8,8
	16,19					
N2C3CK	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
N3QLY3	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
NCEHZ4	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

NGBYKB	GlobalFiler™ (STRmix v2.5)					
		15.3,17.3	17,24	10,10	15,17	10,11
	4sp	10,10	10,14	14,16	17,17	11,11
		13,15	15,17	28,31	16,16	X,Y
		20,22.2			16,27.2	6,8
		16,19	10			2
NNRHUC	GlobalFiler™					
		15.3,17.3	17,24	10	15,17	10,11
	4sp	10	10,14	14,16	17	11
		13,15	15,17	28,31	16	X,Y
		20,22.2			16,27.2	6,8
		16,19	10			2
NVBB39	PowerPlex® 21 (STRmix v2.7)					
		15.3,17.3	17,24		15,17	10,11
	4sp	10,10	10,14		17,17	11,11
		13,15	15,17	28,31		X,Y
		20,22.2	13,13	10,11		6,8,[9.3]
		[14],16,19				8
P2E3X7	GlobalFiler™ (STRmix)					
		15.3,17.3	17,24	10	15,17	10,11
	4sp	10	10,14	14,16	17	11
		13,15	15,17	28,31	16	X,Y
		20,22.2			16,27.2	6,8
		16,19	10			2
P4FE9C	GlobalFiler™					
		15.3,17.3	17,24	10	15,17	10,11
	4sp	10	10,14	14,16	17	11
		13,15	15,17	28,31	16	X,Y
		20,22.2			16,27.2	6,8
		16,19	10			2
PBJC3A	PowerPlex® Fusion 6C (STRmix)					
		[15],15.3,17.3	17,24	10,[14]	15,17	10,11,[12]
	4sp	10	10,14	14,16	17	11
		13,15	15,17	28,31	16	X,Y
		20,22.2	[10],13	10,11	16,27.2	6,8,[9.3]
		[14],16,19	10	21	17	8
PC8PKT	GlobalFiler™					
		15.3,17.3	17,24	10	15,17	10,11
	4sp	10	10,14	14,16	17	11
		13,15	15,17	28,31	16	X,Y
		20,22.2			16,27.2	6,8
		16,19	10			2

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

PFTE3K	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
PLA2MN	GlobalFiler™ (STRmix v. 2.4)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
PQNRWP	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
PZHNBD	GlobalFiler™ (STRmix v2.5)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
Q4RFKD	PowerPlex® Fusion 6C (Bulletproof Sentry)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
Q7HMY9	GlobalFiler™ (STRmix v2.5)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
Q7KALN	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

Q9ALD7	GlobalFiler™ (STRmix)					
	14.3,15,15.3,16.3,17.3	16,17,23,24	9,10	14,15,16,17	9,10,11	
4sp	9,10	9,10,13,14	13,14,15,16	16,17,18	10,11	10,11,12,13
	12,13,14,15	14,15,16,17	27,28,30,31	15,16,17	X,Y	9,10,11,12
	19,20,21.2,22.2			15,16,26.2,27.2,30.2	6,8	8
	14,15,16,18,19	9,10			2	
QAE79T	Identifiler® Plus					
		17,24		15,17	10,11	
4sp	10,10	10,14			11,11	11,13
	13,15	15,17	28,31		X,Y	10,11
	20,22.2				6,8	8,8
	16,19					
QAHLNE	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
QFTPK9	GlobalFiler™ (STRmix v2.6)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
QHUQMQ	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
QKZFPZ	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	20,21	17		
QLCYNC	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

QPCBJC	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
QWVC4V	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
QYU4HL	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	N/T
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	N/T	N/T	16,27.2	6,8	8,8
	16,19	10	N/T	N/T	2	
R96LRW	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
RB6QD4	Investigator® 24plex					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10				
RJHVAV	PowerPlex® Fusion 6C (STRmix V2.5.11)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		
RKFWKT	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

RNVHX9	PowerPlex® Fusion 5C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11		6,8	8
	16,19	10				
RP7H3F	Investigator® 24plex QS (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10				
RPQ24F	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
RVWTCB	Investigator® 24plex QS (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10				
RWQK4Q	GlobalFiler™ (Bulletproof Sentry)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
RWWJR9	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,[23],24	10,[14]	15,17	10,11,[12]	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	[14],16,19	10	21	17		
RX6RY8	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

RZNVZL	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
RZRHXQ	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
T43YLL	PowerPlex® Fusion 5C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11		6,8	8
	16,19	10				
T4RYW7	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
T6FJEW	PowerPlex® Fusion 6C (STRmix v2.5)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		
T78M2B	Identifiler® Plus					
		17,24		15,17	10,11	
4sp	10,10	10,14			11,11	11,13
	13,15	15,17	28,31		X,Y	10,11
	20,22.2				6,8	8,8
	16,19					
TBNWA9	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

TFHVX6	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
TJT4P9	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
TMHEVU	GlobalFiler™					
	[11],[15],15.3,17.3	17,[20],[23],24	10,[14]	15,17	10,11,[12]	
4sp	10	10,14	14,16	17,[18]	11	11,[12],13
	13,15,[16],[18]	[11],15,17	28,31	16	X,Y	10,11,[12]
	20,22.2			16,27.2,[29.2],[30.2]	6,8,[9.3]	8
	[14],16,19	10			2	
TMJ48D	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
TMTDV6	Identifiler®, Investigator® 24plex QS					
	11,15,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	N/A
4sp	10,11	10,13,14	13,14,16	17,18	10,11	11,12,13
	13,15,16,18	11,14,15,17	28,31,32.2	15,16	X,Y	10,11,12
	19,20,22.2	N/A	N/A	16,27.2,29.2,30.2	6,8,9,3	8
	14,16,19	10	N/A	N/A	N/A	
TNQMR8	Identifiler® Plus					
		17,24		15,17	10,11	
4sp	10	10,14			11	11,13
	13,15	15,17	28,31		X,Y	10,11
	20,22.2				6,8	8
	16,19					
TNURZQ	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	20,21	17		

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

TPK7XE	GlobalFiler™ (STRmix 2.4)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
TQWYWN	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		
TUKDKX	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
TUL294	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
TW9Z2R	Identifiler® Plus, PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
TXYLR	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
TYCHCG	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

TZMK3L	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		
U28XVN	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
U42G8M	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
UEZC4X	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
UFCUFB	PowerPlex® Fusion 5C					
	15.3,17.3	17,[24]	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,[11]
	20,22.2	13	10,11		6,8	8
	16,19	10				
UKC24U	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		
UUFBBJ	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

UVRWZK	Investigator® 24plex (STRmix)					
	15.3,17.3	17,[20],24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15,[16],[18]	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8,[9.3]	8
	[14],16,19	10				
UX9LYN	GlobalFiler™ (STRmix)					
	11,15.3,17.3	17,20,23,24	10,14	15,17	10,11,12	
4sp	10,11	10,13,14	14,16	17,18	10,11	11,12,13
	13,15,16	11,14,15,17	28,31,32.2	16	X,Y	10,11,12
	20,22.2			16,27.2,30.2	6,8,9.3	8
	14,16,19	10			2	
V3LJ8B	GlobalFiler™ (STRmix 2.4)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
V4HTLM	PowerPlex® Fusion 6C (STRmix 2.5)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		
VDM3QQ	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
VGPU84	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
VJTPNL	GlobalFiler™ (STRmix v.2.8)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,(16),17	28,31	16,(17)	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,(18),19	10			2	



TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

VKKR9F	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
VXARXX	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
VZF29F	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
W26VB3	GlobalFiler™ (STRmix v2.5)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
W9DZNV	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	20,21	17		
WBDCZM	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
WGH4C7	GlobalFiler™ (STRmix v2.5)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

WRGRGG	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
WTW2HU	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	20,21	17		
X2FXLE	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
X6G8KN	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
X9KTNM	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
XAFCKM	Identifiler® Plus					
		17,24		15,17	10,11	
4sp	10,10	10,14			11,11	11,13
	13,15	15,17	28,31		X,Y	10,11
	20,22.2				6,8	8,8
	16,19					
XAG4LC	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

XBNPPH	GlobalFiler™ (STRmix v2.4)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
XCWVBJ	ESI-17 FAST					
	15.3,17.3	17,24	10	15,17		
4sp		10,14	(9),14,16	17		11,13
	13,15	(10),(12),15,17	28,31	16	X,Y	
	20,22.2			16,27.2	6,8	
	16,19					
XDFNFM	PowerPlex® 21 (STRmix)					
	15.3,17.3	17,24		15,17	10,11	12,14
4sp	10,10	10,14		17,17	11,11	11,13,14
	13,15,18	15,17	28,31		X,Y	10,11
	20,22.2	13,13	10,11		6,8	8,8
	16,19					
XGV3ZM	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
XH9JBF	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
XKDC28	PowerPlex® 6C (BP Sentry)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
XKZNWZ	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

XTQ8CU	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	20,21	17		
XVXFCD	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
XYZAEP	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
Y8NMTE	GlobalFiler™ (STRmix™)					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
YAQPB4	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
YBMYPE	GlobalFiler™ (STRmix)					
	15.3,17.3	17,24	10,14	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
YFFACY	Identifiler®, Investigator® 24plex QS, FlexPlex27					
	15.3,17.3	17,24	10,10	15,17	10,11	12,14
4sp	10,10	10,14	14,16	17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	N/A	10,11	16,27.2	6,8	8,8
	16,19	10	21	17	N/A	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

YLMUKP	PowerPlex® Fusion 6C (STRmix)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		
YQ28PH	PowerPlex® Fusion 6C (STRmix v2.5)					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	13,13	10,11	16,27.2	6,8	8,8
	16,19	10	21	17		
YXGW4X	Investigator® 24plex					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10				
YXYYXC	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
Z2ZD4G	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
Z3RFNC	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
Z7PYNP	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	

TABLE 2

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

Item 4sp - STR Results

Z9W9UZ	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	
ZBG79H	GlobalFiler™					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10			2	
ZBZ2QK	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
ZD4UHX	Investigator® 24plex QS					
	15.3,17.3	17,24	10,10	15,17	10,11	N/A
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2	N/A	N/A	16,27.2	6,8	8,8
	16,19	10	N/A	N/A	N/A	
ZK7WTP	Investigator® 24plex					
	15.3,17.3	17,24	10,10	15,17	10,11	
4sp	10,10	10,14	14,16	17,17	11,11	11,13
	13,15	15,17	28,31	16,16	X,Y	10,11
	20,22.2			16,27.2	6,8	8,8
	16,19	10				
ZNMBB4	PowerPlex® Fusion 6C					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2	13	10,11	16,27.2	6,8	8
	16,19	10	21	17		
ZVJBGJ	GlobalFiler™					
	15.3,17.3	17,24	10	15,17	10,11	
4sp	10	10,14	14,16	17	11	11,13
	13,15	15,17	28,31	16	X,Y	10,11
	20,22.2			16,27.2	6,8	8
	16,19	10			2	

# YSTR Amplification Kit(s) & Results

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

## Item 1 - YSTR Results

3GGG62	PP23								
1	[REDACTED]								
3KJ7WA	Yfiler™								
1	[REDACTED]								
67B9HZ	Yfiler™ Plus								
1	no results	no results	no results	no results	no results	no results	no results	no results	no results
	no results	no results	no results	no results	no results	no results	no results	no results	no results
	no results	no results		no results	no results	no results	no results		no results
9YYBEC	Yfiler™ Plus								
1	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-		-	-	-	-		-
L3TQ9T	PowerPlex® Y 23								
1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
TNQMR8	Yfiler™								
1	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
UBZ4VG	Yfiler™								
1	[REDACTED]								
V4JQWH	Yfiler™								
1	[REDACTED]								
XMFC26	Yfiler™ Plus								
1	[REDACTED]								

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 2 - YSTR Results

2D3EMC									
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
2RNMRP Yfiler™ Plus									
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
2XN7TZ Yfiler™ Plus									
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
3KJ7WA Yfiler™									
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
43E3RB Yfiler™ Plus									
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
44CJVZ Yfiler™ Plus									
2	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
49MC7Y Yfiler™ Plus									
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
4E2J7A Yfiler™ Plus									
2	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
4FMRV7 Yfiler™ Plus									
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
4H2U3A Yfiler™ Plus									
2	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
4M8RBJ PowerPlex® Y 23									
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
4NCR2H PowerPlex® Y 23									
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11



TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 2 - YSTR Results

62JTKE	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
66YDXU	Yfiler™								
2	-	14	14,15	12	28	23	11	11	13
	16	10	11	20	-	14	15	-	-
	-	-	-	-	-	-	22	-	11
67B9HZ	Yfiler™ Plus								
2	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
69K6JW	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
6C2F82	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
6DCF7F	PowerPlex® Y 23								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
6DE24G	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
6M3W6H	PowerPlex® Y 23								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
6V9TTV	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
7V99M8	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
7VNCCT	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
834PGB	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

## Item 2 - YSTR Results

84EEX2	Yfiler™ Plus								
2	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
86EK89	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
8EWZAB	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
8HG27H	PowerPlex® Y 23								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
9K3ZZ8	PowerPlex® Y 23								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
9LVNPU	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
9NKDN2	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
9PVZKU	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
9YYBEC	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
A4N6WV	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
A6MAMQ	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
A9G82V	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 2 - YSTR Results

ANECAT	Yfiler™ Plus								
2	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
AYYUUD	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
B24JWL	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
BAC8FL	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
BHKVEE	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
BP2CLU	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
BVC82P	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
BWRQLM	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
CEYEF7	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
CGACTN	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
CGNR8P	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
D77BEH	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11

TABLE 3

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 2 - YSTR Results</b>									
DA8BEE	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
DCCVWQ	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
DJCJXL	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
DQPGHY	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
DY2M7P	Yfiler™ Plus								
2	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
DY3N29	PowerPlex® Y 23								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
E33YVM	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
E34P4Q	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
E3VZ86	Yfiler™ Plus								
2	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
E6PKK4	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
ETBPZY	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
EXBPLP	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

## Item 2 - YSTR Results

FAXC2G	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
FAZ46H	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
FDVN2M	Yfiler™ Plus								
2	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
FEAD6Y	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
FEVX3J	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
FGUEXZ	Yfiler™ Plus								
2	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11	NT	18	16	19	22	NT	11
FMLEHM	PowerPlex® Y 23								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
FQMLXJ	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
FT6UUX	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
FVXCLY	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
G8ZMPY	PowerPlex® Y 23								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
GEPZ6T	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 2 - YSTR Results

GM3W8E	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
GQTJBY	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
H2NYP3	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
H8MDRJ	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
H8Y9YJ	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
H9E37K	Yfiler™ Plus								
2	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
HPG2RU	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
							22		11
HRQ3W2	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
							22		11
HTJXJA	PowerPlex® Y 23								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
HXR4DU	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
							22		11
JA4YXC	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
JEXVKH	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11

TABLE 3

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 2 - YSTR Results</b>									
JKJXJ8	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
K6T7MD	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
K8CA74	PowerPlex® Y 23								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
KEUHQU	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
KTBHGT	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
L3TQ9T	PowerPlex® Y 23								
2	--	14	14,15	12	28	23	11	11	13
	16	10	11	20	--	14	15	--	25
	--	11	12	18	16	--	22	12	11
L9NGTW	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
LJZQBV	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
LKX4XN	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
LMRJVE	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
LP88ZJ	PowerPlex® Y 23								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
LQ7DBC	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 2 - YSTR Results

LU3867	Yfiler™								
2	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15			
						22			11
M6YEFW	Yfiler™								
2	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15			
						22			11
M8MT47	PowerPlex® Y 23								
2	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15		25	
		11	12	18	16	22	12		11
M9XMRT	PowerPlex® Y 23 SYSTEM								
2	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15		25	
		11	12	18	16	22	12		11
MB438C	Yfiler™								
2	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15			
						22			11
MHLP4M	Yfiler™								
2	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15			
						22			11
MP2CUH	PowerPlex® Y 23								
2	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15		25	
		11	12	18	16	22	12		11
N3QLY3	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
NCEHZ4	PowerPlex® Y 23								
2	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15		25	
		11	12	18	16	22	12		11
NVBB39	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
P2E3X7	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
P4FE9C	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11



TABLE 3

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 2 - YSTR Results</b>									
PA89VD	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
PC8PKT	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
PLA2MN	Yfiler™ Plus								
2	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
Q7KALN	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
QAE79T	Yfiler™ Plus								
2	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
QFN9LA	PowerPlex® Y 23								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
QJR4AJ	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
RB6QD4	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
RBRYV9	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
RNVHX9	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
RP7H3F	PowerPlex® Y 23								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
RVWTCB	PowerPlex® Y 23								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11

TABLE 3

WebCode		Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4	
<b>Item 2 - YSTR Results</b>										
RWQK4Q	Yfiler™ Plus									
2	38	14	14,15	12	28	23	11	11	13	
	16	10	11	20	28	14	15	10	25	
	39	11		18	16	19	22		11	
RX6RY8	Yfiler™ Plus									
2	38	14	14,15	12	28	23	11	11	13	
	16	10	11	20	28	14	15	10	25	
	39	11		18	16	19	22		11	
RZNZVL	Yfiler™ Plus									
2	38	14	14,15	12	28	23	11	11	13	
	16	10	11	20	28	14	15	10	25	
	39	11		18	16	19	22		11	
RZRHXQ	Yfiler™									
2		14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15			
							22		11	
T37NLC	Yfiler™ Plus									
2	38,38	14	14,15	12	28	23	11	11	13	
	16	10	11	20	28	14	15	10	25	
	39	11		18	16	19	22		11	
T43YLL	Yfiler™									
2		14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15			
							22		11	
T4RYW7	Yfiler™ Plus									
2	38	14	14,15	12	28	23	11	11	13	
	16	10	11	20	28	14	15	10	25	
	39	11		18	16	19	22		11	
T6FJEW	PowerPlex® Y 23									
2		14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15		25	
		11	12	18	16		22	12	11	
TBNWA9	Yfiler™ Plus									
2	38,38	14	14,15	12	28	23	11	11	13	
	16	10	11	20	28	14	15	10	25	
	39	11		18	16	19	22		11	
TFHVX6	Yfiler™ Plus									
2	38	14	14,15	12	28	23	11	11	13	
	16	10	11	20	28	14	15	10	25	
	39	11		18	16	19	22		11	
TMHEVU	PowerPlex® Y 23									
2		14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15		25	
		11	12	18	16		22	12	11	
TMTDV6	Yfiler™									
2	N/A	14	14,15	12	28	23	11	11	13	
	16	10	11	20	N/A	14	15	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11	

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 2 - YSTR Results

TNQMR8	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
TUL294	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
TW9Z2R	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
U42G8M	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
UBZ4VG	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
UFCUFB	PowerPlex® Y 23								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
UVRWZK	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
V4HTLM	PowerPlex® Y 23								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
V4JQWH	Yfiler™								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
VDM3QQ	PowerPlex® Y 23								
2		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
VGPU84	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
VJTPNL	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11

TABLE 3

WebCode		Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4	
<b>Item 2 - YSTR Results</b>										
VKKR9F	Yfiler™									
2		14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15			
							22		11	
VZF29F	Yfiler™ Plus									
2	38,38	14	14,15	12	28	23	11	11	13	
	16	10	11	20	28	14	15	10	25	
	39	11		18	16	19	22		11	
WBDCZM	Yfiler™									
2		14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15			
							22		11	
WNJEM6	Yfiler™ Plus									
2	38	14	14,15	12	28	23	11	11	13	
	16	10	11	20	28	14	15	10	25	
	39	11		18	16	19	22		11	
WRGRGG	Yfiler™ Plus									
2	38	14	14,15	12	28	23	11	11	13	
	16	10	11	20	28	14	15	10	25	
	39	11		18	16	19	22		11	
X6G8KN	PowerPlex® Y 23									
2		14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15		25	
		11	12	18	16		22	12	11	
XGV3ZM	PowerPlex® Y 23									
2		14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15		25	
		11	12	18	16		22	12	11	
XH9JBF	Yfiler™									
2		14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15			
							22		11	
XKDC28	PowerPlex® Y 23									
2		14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15		25	
		11	12	18	16		22	12	11	
XLTE7K	Yfiler™									
2	38	14	14,15	12	28	23	11	11	13	
	16	10	11	20	28	14	15	10	25	
	39	11		18	16	19	22		11	
XMFC26	Yfiler™ Plus									
2	38	14	14,15	12	28	23	11	11	13	
	16	10	11	20	28	14	15	10	25	
	39	11		18	16	19	22		11	
YFFACY	Yfiler™									
2	N/A	14	14,15	12	28	23	11	11	13	
	16	10	11	20	N/A	14	15	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11	

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 2 - YSTR Results

YQ28PH	PowerPlex® Y 23								
2	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15	25		
	11	12	18	16	22	12	11		
YUKCBY	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11	18	16	19	22	11		
YXGW4X	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11	18	16	19	22	11		
YXYXC	Yfiler™								
2	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15			
						22			11
Z3RFNC	Yfiler™								
2	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15			
						22			11
Z7PYNP	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11	18	16	19	22	11		
Z9W9UZ	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11	18	16	19	22	11		
ZD4UHX	Yfiler™								
2	N/A	14	14,15	12	28	23	11	11	13
	16	10	11	20	N/A	14	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
ZVJBGJ	Yfiler™ Plus								
2	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11	18	16	19	22	11		

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3 - YSTR Results

2D3EMC									
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
2RNMRP Yfiler™ Plus									
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
43E3RB Yfiler™ Plus									
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
44CJVZ Yfiler™ Plus									
3	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
4E2J7A Yfiler™ Plus									
3	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
4FMRV7 Yfiler™ Plus									
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
4H2U3A Yfiler™ Plus									
3	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
4M8RBJ PowerPlex® Y 23									
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
4NCR2H PowerPlex® Y 23									
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
62JTKE Yfiler™									
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
66YDXU Yfiler™									
3	-	14	14,15	12	28	23	11	11	13
	16	10	11	20	-	14	15	-	-
	-	-	-	-	-	-	22	-	11
67B9HZ Yfiler™ Plus									
3	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3 - YSTR Results

69K6JW	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
6C2F82	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
6DCF7F	PowerPlex® Y 23								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
6DE24G	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
6M3W6H	PowerPlex® Y 23								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
6V9TTV	Yfiler™								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
7V99M8	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
7VNCCT	Yfiler™								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
834PGB	Yfiler™								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
84EEX2	Yfiler™ Plus								
3	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
86EK89	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
8EWZAB	Yfiler™								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3 - YSTR Results

8HG27H	PowerPlex® Y 23								
3	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15	25		
	11	12	18	16	22	12	11		
9K3ZZ8	PowerPlex® Y 23								
3	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15	25		
	11	12	18	16	22	12	11		
9NKDN2	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11	18	16	19	22	11		
9PVZKU	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11	18	16	19	22	11		
9YYBEC	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11	18	16	19	22	11		
A4N6WV	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11	18	16	19	22	11		
A6MAMQ	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11	18	16	19	22	11		
A9G82V	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11	18	16	19	22	11		
ANECAT	Yfiler™ Plus								
3	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11	18	16	19	22	11		
AYYUUD	Yfiler™								
3	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15	25		
						22	11		
B24JWL	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11	18	16	19	22	11		
BAC8FL	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11	18	16	19	22	11		



TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3 - YSTR Results

BHKVEE	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
BP2CLU	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
BVC82P	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
BWRQLM	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
CEYEF7	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
DA8BEE	Yfiler™								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
DCCVQ	Yfiler™								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
DJCJXL	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
DQPGHY	Yfiler™								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
DY2M7P	Yfiler™ Plus								
3	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
DY3N29	PowerPlex® Y 23								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
E33YVM	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3 - YSTR Results

E34P4Q	Yfiler™									
	3	14	14,15	12	28	23	11	11	13	
		16	10	11	20	14	15	22	11	
E3VZ86	Yfiler™ Plus									
	3	38,38	14	14,15	12	28	23	11	11	13
		16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11	
E6PKK4	Yfiler™									
	3	14	14,15	12	28	23	11	11	13	
		16	10	11	20	14	15	22	11	
ETBPZY	Yfiler™ Plus									
	3	38	14	14,15	12	28	23	11	11	13
		16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11	
EXBPLP	Yfiler™ Plus									
	3	38	14	14,15	12	28	23	11	11	13
		16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11	
FAXC2G	Yfiler™ Plus									
	3	38	14	14,15	12	28	23	11	11	13
		16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11	
FAZ46H	Yfiler™ Plus									
	3	38	14	14,15	12	28	23	11	11	13
		16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11	
FDVN2M	Yfiler™ Plus									
	3	38,38	14	14,15	12	28	23	11	11	13
		16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11	
FEAD6Y	Yfiler™ Plus									
	3	38	14	14,15	12	28	23	11	11	13
		16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11	
FEVX3J	Yfiler™ Plus									
	3	38	14	14,15	12	28	23	11	11	13
		16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11	
FGUEXZ	Yfiler™ Plus									
	3	38,38	14	14,15	12	28	23	11	11	13
		16	10	11	20	28	14	15	10	25
	39	11	NT	18	16	19	22	NT	11	
FMLEHM	PowerPlex® Y 23									
	3	14	14,15	12	28	23	11	11	13	
		16	10	11	20	14	15	25		
		11	12	18	16	22	12	11		

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

## Item 3 - YSTR Results

FQMLXJ	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
FT6UUX	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
FVXCLY	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
G8ZMPY	PowerPlex® Y 23								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
GEPZ6T	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
GQTJBY	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
H2NYP3	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
H8MDRJ	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
H8Y9YJ	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
H9E37K	Yfiler™ Plus								
3	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
HPG2RU	Yfiler™								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
HRQ3W2	Yfiler™								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3 - YSTR Results

HTJXJA	PowerPlex® Y 23								
3	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15	25		
	11	12	18	16	22	12	11		
HXR4DU	Yfiler™								
3	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15	25		
						22		11	
JA4YXC	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
JKJXJ8	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
K6T7MD	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
K8CA74	PowerPlex® Y 23								
3	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15	25		
	11	12	18	16	22	12	11		
KEUHQU	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
KTBHGT	Yfiler™								
3	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15			
						22		11	
L3TQ9T	PowerPlex® Y 23								
3	--	14	14,15	12	28	23	11	11	13
	16	10	11	20	--	14	15	--	25
	--	11	12	18	16	--	22	12	11
L9NGTW	Yfiler™								
3	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15			
						22		11	
LJZQBV	Yfiler™								
3	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15			
						22		11	
LKX4XN	Yfiler™								
3	14	14,15	12	28	23	11	11	13	
	16	10	11	20	14	15			
						22		11	

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3 - YSTR Results

LMRJVE	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
LQ7DBC	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
LU3867	Yfiler™								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
M6YEFW	Yfiler™								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
M8MT47	PowerPlex® Y 23								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
MB438C	Yfiler™								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
MHLP4M	Yfiler™								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
N3QLY3	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
NCEHZ4	PowerPlex® Y 23								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
NVBB39	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
P4FE9C	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
PA89VD	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3 - YSTR Results

PC8PKT	Yfiler™									
	3	14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15		11	
							22			
PLA2MN	Yfiler™ Plus									
	3	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25	
39	11		18	16	19	22		11		
Q7KALN	Yfiler™									
	3	14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15		11	
							22			
QAE79T	Yfiler™ Plus									
	3	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25	
39	11		18	16	19	22		11		
QFN9LA	PowerPlex® Y 23									
	3	14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15		25	
	11	12	18	16		22	12	11		
QJR4AJ	Yfiler™ Plus									
	3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25	
39	11		18	16	19	22		11		
RB6QD4	Yfiler™ Plus									
	3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25	
39	11		18	16	19	22		11		
RBRYV9	Yfiler™ Plus									
	3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25	
39	11		18	16	19	22		11		
RNVHX9	Yfiler™ Plus									
	3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25	
39	11		18	16	19	22		11		
RP7H3F	PowerPlex® Y 23									
	3	14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15		25	
	11	12	18	16		22	12	11		
RVWTCD	PowerPlex® Y 23									
	3	14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15		25	
	11	12	18	16		22	12	11		
RWQK4Q	Yfiler™ Plus									
	3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25	
39	11		18	16	19	22		11		

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3 - YSTR Results

RX6RY8	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
RZNZVL	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
RZRHXQ	Yfiler™								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
T37NLC	Yfiler™ Plus								
3	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
T43YLL	Yfiler™								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
T4RYW7	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
T6FJEW	PowerPlex® Y 23								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
TBNWA9	Yfiler™ Plus								
3	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
TFHVX6	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
TMHEVU	PowerPlex® Y 23								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
TMTDV6	Yfiler™								
3	N/A	14	14,15	12	28	23	11	11	13
	16	10	11	20	N/A	14	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
TNQMR8	Yfiler™								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3 - YSTR Results

TW9Z2R	Yfiler™									
	3	14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15			
							22		11	
U42G8M	Yfiler™									
	3	14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15			
							22		11	
UFCUFB	PowerPlex® Y 23									
	3	14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15		25	
		11	12	18	16		22	12	11	
UVRWZK	Yfiler™									
	3	14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15			
							22		11	
V4HTLM	PowerPlex® Y 23									
	3	14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15		25	
		11	12	18	16		22	12	11	
VDM3QQ	PowerPlex® Y 23									
	3	14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15		25	
		11	12	18	16		22	12	11	
VGPU84	Yfiler™ Plus									
	3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25	
	39	11		18	16	19	22		11	
VJTPNL	Yfiler™ Plus									
	3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25	
	39	11		18	16	19	22		11	
VKKR9F	Yfiler™									
	3	14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15			
							22		11	
VZF29F	Yfiler™ Plus									
	3	38,38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25	
	39	11		18	16	19	22		11	
WBDCZM	Yfiler™									
	3	14	14,15	12	28	23	11	11	13	
	16	10	11	20		14	15			
							22		11	
WNJEM6	Yfiler™ Plus									
	3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25	
	39	11		18	16	19	22		11	



TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

## Item 3 - YSTR Results

WRGRGG	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
X6G8KN	PowerPlex® Y 23								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
XGV3ZM	PowerPlex® Y 23								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
XH9JBF	Yfiler™								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
XKDC28	PowerPlex® Y 23								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
XMFC26	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
YFFACY	Yfiler™								
3	N/A	14	14,15	12	28	23	11	11	13
	16	10	11	20	N/A	14	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
YQ28PH	PowerPlex® Y 23								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		25
		11	12	18	16		22	12	11
YUKCBY	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
YXGW4X	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
YXYXC	Yfiler™								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
Z2ZD4G	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3 - YSTR Results

Z3RFNC	Yfiler™								
3		14	14,15	12	28	23	11	11	13
	16	10	11	20		14	15		
							22		11
Z7PYNP	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
Z9W9UZ	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
ZD4UHX	Yfiler™								
3	N/A	14	14,15	12	28	23	11	11	13
	16	10	11	20	N/A	14	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
ZVJBGJ	Yfiler™ Plus								
3	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3e - YSTR Results

49MC7Y	Yfiler™ Plus								
3e	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
9LVNPU	Yfiler™ Plus								
3e	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
CGNR8P	Yfiler™ Plus								
3e	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
D77BEH	Yfiler™ Plus								
3e	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
GM3W8E	Yfiler™ Plus								
3e	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
JEXVKH	Yfiler™ Plus								
3e	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
P2E3X7	Yfiler™ Plus								
3e	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
QLCYNC	Yfiler™ Plus								
3e	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
TUL294	Yfiler™ Plus								
3e	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3sp - YSTR Results

49MC7Y	Yfiler™ Plus								
3sp	[Redacted]								
9LVNPU	Yfiler™ Plus								
3sp	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
CGNR8P	Yfiler™ Plus								
3sp	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
D77BEH	Yfiler™ Plus								
3sp	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
GM3W8E	Yfiler™ Plus								
3sp	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11
JEXVKH	Yfiler™ Plus								
3sp	NT	NT	NT	NT	NT	NT	NT	NT	NT
	NT	NT	NT	NT	NT	NT	NT	NT	NT
	NT	NT		NT	NT	NT	NT		NT
P2E3X7	Yfiler™ Plus								
3sp	NR	NR	NR	12	NR	23	11	NR	NR
	NR	NR	NR	NR	28	NR	15	10	NR
	39	NR		NR	NR	NR	22		NR
QLCYNC	Yfiler™ Plus								
3sp	[Redacted]								
TUL294	Yfiler™ Plus								
3sp	38	14	14,15	12	28	23	11	11	13
	16	10	11	20	28	14	15	10	25
	39	11		18	16	19	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4 - YSTR Results

69K6JW	Yfiler™ Plus								
4	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
8HG27H	PowerPlex® Y 23								
4		14	15,15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
9YYBEC	Yfiler™ Plus								
4	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
A6MAMQ	Yfiler™ Plus								
4	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
BVC82P	Yfiler™ Plus								
4	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
BWRQLM	Yfiler™ Plus								
4	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
E33YVM	Yfiler™ Plus								
4	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
EXBPLP	Yfiler™ Plus								
4	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
FAZ46H	Yfiler™ Plus								
4	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
G8ZMPY	PowerPlex® Y 23								
4		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
H8MDRJ	Yfiler™ Plus								
4	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
HXR4DU	Yfiler™								
4		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4 - YSTR Results

JCN3FH	Yfiler™ Plus								
4	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
PA89VD	Yfiler™ Plus								
4	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
RBRYV9	Yfiler™ Plus								
4	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
T37NLC	Yfiler™ Plus								
4	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
WNJEM6	Yfiler™ Plus								
4	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
YUKCBY	Yfiler™ Plus								
4	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
ZK7WTP	Yfiler™ Plus								
4	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4e - YSTR Results

2D3EMC									
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		11
							22		
2RNMRP	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
3Q3PKH	Yfiler™ Plus								
4e									
43E3RB	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
44CJVZ	Yfiler™ Plus								
4e	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
49MC7Y	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
4E2J7A	Yfiler™ Plus								
4e	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
4FMRV7	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
4H2U3A	Yfiler™ Plus								
4e	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
4M8RBJ	PowerPlex® Y 23								
4e									
4NCR2H	PowerPlex® Y 23								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
4P9CLW	Yfiler™ Plus								
4e									

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4e - YSTR Results

62JTKE	Yfiler™								
4e		14	15,15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
66YDXU	Yfiler™								
4e	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
67B9HZ	Yfiler™ Plus								
4e	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
6C2F82	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
6DCF7F	PowerPlex® Y 23								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
6DE24G	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
6M3W6H	PowerPlex® Y 23								
4e									
6V9TTV	Yfiler™								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
7V99M8	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
7VNCCT	Yfiler™								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
834PGB	Yfiler™								
4e									
84EEX2	Yfiler™ Plus								
4e									



TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4e - YSTR Results

86EK89	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
8EWZAB	Yfiler™								
4e		14	15,15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
9K3ZZ8	PowerPlex® Y 23								
4e		14	15,15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
9LVNPU	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
9NKDN2	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
9PVZKU	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
A4N6WV	Yfiler™ Plus								
4e	39			12			10	11	
	16	10					15		25
	40	11				20	22		
A9G82V	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
ANECAT	Yfiler™ Plus								
4e	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
AYYUUD	Yfiler™								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
B24JWL	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
BAC8FL	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4e - YSTR Results

BHKVEE	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
BP2CLU	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
BRT7PQ	Yfiler™ Plus								
4e									
CEYEF7	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
CGNR8P	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
D77BEH	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
DA8BEE	Yfiler™								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
DCCYVQ	Yfiler™								
4e	not done								
DJCJXL	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
DQPGHY	Yfiler™								
4e									
DY2M7P	Yfiler™ Plus								
4e	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
DY3N29	PowerPlex® Y 23								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4e - YSTR Results

E34P4Q	Yfiler™								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		11
							22		
E3VZ86	Yfiler™ Plus								
4e	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
E6PKK4	Yfiler™								
4e									
ETBPZY	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
FAXC2G	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
FDVN2M	Yfiler™ Plus								
4e									
FEAD6Y	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
FEVX3J	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
FGAL8N	Yfiler™ Plus								
4e									
FGUEXZ	Yfiler™ Plus								
4e	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11	NT	21	17	20	22	NT	11
FMLEHM	PowerPlex® Y 23								
4e									
FQMLXJ	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4e - YSTR Results

FT6UUX	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
FXCLY	Yfiler™ Plus								
4e									
GEPZ6T	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
GM3W8E	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
GQTJBY	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
H2NYP3	Yfiler™ Plus								
4e									
H8Y9YJ	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
H9E37K	Yfiler™ Plus								
4e	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
HPG2RU	Yfiler™								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
HRQ3W2	Yfiler™								
4e									
HTJXJA	PowerPlex® Y 23								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
JA4YXC	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4e - YSTR Results

JEXVKH	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
JKJXJ8	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
K6T7MD	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
K8CA74	PowerPlex® Y 23								
4e									
KEUHQU	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
KTBHGT	Yfiler™								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
L3TQ9T	PowerPlex® Y 23								
4e	--	14	15	12	28	23	10	11	13
	16	10	11	19	--	14	15	--	25
	--	11	13	21	17	--	22	12	11
L9NGTW	Yfiler™								
4e		14	15,15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
LJZQBV	Yfiler™								
4e									
LKX4XN	Yfiler™								
4e									
LMRJVE	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
LP88ZJ	PowerPlex® Y 23								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4e - YSTR Results

LQ7DBC	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
LU3867	Yfiler™								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
M6H8AE	Yfiler™ Plus								
4e	[Redacted]								
M6YEFW	Yfiler™								
4e	[Redacted]								
M8MT47	PowerPlex® Y 23								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
M9XMRT	PowerPlex® Y 23 SYSTEM								
4e	[Redacted]								
MB438C	Yfiler™								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
MHLP4M	Yfiler™								
4e	[Redacted]								
MP2CUH	PowerPlex® Y 23								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
MV87ND	Yfiler™ Plus								
4e	[Redacted]								
N3QLY3	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
NCEHZ4	PowerPlex® Y 23								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4e - YSTR Results

NVBB39	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
P2E3X7	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
P4FE9C	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
PC8PKT	Yfiler™								
4e									
PLA2MN	Yfiler™ Plus								
4e	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
Q7KALN	Yfiler™								
4e									
QAE79T	Yfiler™ Plus								
4e	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
QFN9LA	PowerPlex® Y 23								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
QJR4AJ	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
QLCYNC	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
RB6QD4	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
RNVHX9	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4e - YSTR Results

RP7H3F	PowerPlex® Y 23								
4e	14	15	12	28	23	10	11	13	
	16	10	11	19	14	15	25		
	11	13	21	17	22	12	11		
RVWTCD	PowerPlex® Y 23								
4e	14	15	12	28	23	10	11	13	
	16	10	11	19	14	15	25		
	11	13	21	17	22	12	11		
RWQK4Q	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11	21	17	20	22	11		
RX6RY8	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11	21	17	20	22	11		
RZNZVL	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11	21	17	20	22	11		
RZRHXQ	Yfiler™								
4e									
T43YLL	Yfiler™								
4e									
T4RYW7	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11	21	[14],17	20	22	11		
T6FJEW	PowerPlex® Y 23								
4e									
T78M2B	Yfiler™ Plus								
4e									
TBNWA9	Yfiler™ Plus								
4e	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11	21	17	20	22	11		
TFHVX6	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11	21	17	20	22	11		



TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4e - YSTR Results

TMHEVU	PowerPlex® Y 23								
4e	[REDACTED]								
TMTDV6	Yfiler™								
4e	N/A	INC	INC	INC	INC	INC	INC	INC	INC
	INC	INC	INC	INC	N/A	INC	INC	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	INC	N/A	INC
TNQMR8	Yfiler™								
4e		[14]	15	12	[28]	[23]	10	11	13
	16	10	11	19		14	15		
							22		11
TUL294	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
TW9Z2R	Yfiler™								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
U42G8M	Yfiler™								
4e	[REDACTED]								
UFCUFB	PowerPlex® Y 23								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
UVRWZK	Yfiler™								
4e	[REDACTED]								
V4HTLM	PowerPlex® Y 23								
4e	[REDACTED]								
VDM3QQ	PowerPlex® Y 23								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
VGPU84	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
VJTPNL	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4e - YSTR Results

VKKR9F	Yfiler™								
4e	[REDACTED]								
VZF29F	Yfiler™ Plus								
4e	[REDACTED]								
WBDCZM	Yfiler™								
4e	[REDACTED]								
WRGRGG	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
X6G8KN	PowerPlex® Y 23								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
XGV3ZM	PowerPlex® Y 23								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
XH9JBF	Yfiler™								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
XKDC28	PowerPlex® Y 23								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
XMFC26	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
YFFACY	Yfiler™								
4e	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
YQ28PH	PowerPlex® Y 23								
4e	[REDACTED]								
YXGW4X	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4e - YSTR Results

YXYXC	Yfiler™								
4e	[REDACTED]								
Z2ZD4G	Yfiler™ Plus								
4e	[REDACTED]								
Z3RFNC	Yfiler™								
4e	[REDACTED]								
Z7PYNP	Yfiler™ Plus								
4e	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
Z9W9UZ	PowerPlex® Y 23								
4e		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
ZVJBGJ	Yfiler™ Plus								
4e	[REDACTED]								

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4sp - YSTR Results

2D3EMC									
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
2RNMRP Yfiler™ Plus									
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
3Q3PKH Yfiler™ Plus									
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
43E3RB Yfiler™ Plus									
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
44CJVZ Yfiler™ Plus									
4sp	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
49MC7Y Yfiler™ Plus									
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
4E2J7A Yfiler™ Plus									
4sp	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
4FMRV7 Yfiler™ Plus									
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
4H2U3A Yfiler™ Plus									
4sp	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
4M8RBJ PowerPlex® Y 23									
4sp		14	15	12	28	23	10	11	13
	16	10	11	[18],19		14	15		25
		11	13	21	17		22	12	11
4NCR2H PowerPlex® Y 23									
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
4P9CLW Yfiler™ Plus									
4sp	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4sp - YSTR Results

62JTKE	Yfiler™								
4sp		14	15,15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
66YDXU	Yfiler™								
4sp	-	14	15	12	28	23	10	11	13
	16	10	11	19	-	14	15	-	-
	-	-	-	-	-	-	22	-	11
67B9HZ	Yfiler™ Plus								
4sp	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
6C2F82	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
6DCF7F	PowerPlex® Y 23								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
6DE24G	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
6M3W6H	PowerPlex® Y 23								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
6V9TTV	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
7V99M8	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
7VNCCT	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
834PGB	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
84EEX2	Yfiler™ Plus								
4sp	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4sp - YSTR Results

86EK89	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
8EWZAB	Yfiler™								
4sp		14	15,15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
9K3ZZ8	PowerPlex® Y 23								
4sp		14	15,15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
9LVNPU	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
9NKDN2	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
9PVZKU	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
A4N6WV	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
A9G82V	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
ANECAT	Yfiler™ Plus								
4sp	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
AYYUUD	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
B24JWL	Yfiler™ Plus								
4sp	NT	NT	NT	NT	NT	NT	NT	NT	NT
	NT	NT	NT	NT	NT	NT	NT	NT	NT
	NT	NT		NT	NT	NT	NT		NT
BAC8FL	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4sp - YSTR Results

BHKVEE	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
BP2CLU	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
BRT7PQ	Yfiler™ Plus								
4sp	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
CEYEF7	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
CGNR8P	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
D77BEH	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
DA8BEE	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
DCCYVQ	Yfiler™								
4sp		14	15,15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
DJCJXL	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
DQPGHY	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
DY2M7P	Yfiler™ Plus								
4sp	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
DY3N29	PowerPlex® Y 23								
4sp									

TABLE 3

WebCode		Amplification Kit							
Item	DYF38751	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 4sp - YSTR Results</b>									
E34P4Q	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
E3VZ86	Yfiler™ Plus								
4sp	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
E6PKK4	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
ETBPZY	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
FAXC2G	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
FDVN2M	Yfiler™ Plus								
4sp	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
FEAD6Y	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
FEVX3J	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
FGAL8N	Yfiler™ Plus								
4sp	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	17	14	15	10	25
	40	11		21	17	20	22		11
FGUEXZ	Yfiler™ Plus								
4sp	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11	NT	21	17	20	22	NT	11
FMLEHM	PowerPlex® Y 23								
4sp		14	15,15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
FQMLXJ	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11



TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4sp - YSTR Results

FT6UUX	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
FXVCLY	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
GEPZ6T	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
GM3W8E	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
GQTJBY	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
H2NYP3	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
H8Y9YJ	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
H9E37K	Yfiler™ Plus								
4sp	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
HPG2RU	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
HRQ3W2	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
HTJXJA	PowerPlex® Y 23								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
JA4YXC	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4sp - YSTR Results

JEXVKH	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
JKJXJ8	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
K6T7MD	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
K8CA74	PowerPlex® Y 23								
4sp		14	15,15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
KEUHQU	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
KTBHGT	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
L3TQ9T	PowerPlex® Y 23								
4sp	--	14	15	12	28	23	10	11	13
	16	10	11	19	--	14	15	--	25
	--	11	13	21	17	--	22	12	11
L9NGTW	Yfiler™								
4sp		14	15,15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
LJZQBV	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
LKX4XN	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
LMRJVE	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
LP88ZJ	PowerPlex® Y 23								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11

TABLE 3

WebCode	Amplification Kit									
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4	
<b>Item 4sp - YSTR Results</b>										
LQ7DBC	Yfiler™ Plus									
4sp	37,39	14	15	12	28	23	10	11	13	
	16	10	11	19	27	14	15	10	25	
	40	11		21	17	20	22		11	
LU3867	Yfiler™									
4sp		14	15	12	28	23	10	11	13	
	16	10	11	19		14	15			
							22		11	
M6H8AE	Yfiler™ Plus									
4sp	37,39	14	15	12	28	23	10	11	13	
	16	10	11	19	27	14	15	10	25	
	40	11		21	17	20	22		11	
M6YEFW	Yfiler™									
4sp		14	15	12	28	23	10	11	13	
	16	10	11	19		14	15			
							22		11	
M8MT47	PowerPlex® Y 23									
4sp		14	15	12	28	23	10	11	13	
	16	10	11	19		14	15		25	
		11	13	21	17		22	12	11	
M9XMRT	PowerPlex® Y 23 SYSTEM									
4sp		14	15	12	28	23	10	11	13	
	16	10	11	19		14	15		25	
		11	13	21	17		22	12	11	
MB438C	Yfiler™									
4sp		14	15	12	28	23	10	11	13	
	16	10	11	19		14	15			
							22		11	
MHLP4M	Yfiler™									
4sp		14	15	12	28	23	10	11	13	
	16	10	11	19		14	15			
							22		11	
MP2CUH	PowerPlex® Y 23									
4sp										
MV87ND	Yfiler™ Plus									
4sp	37,39	14	15,15	12	28	23	10	11	13	
	16	10	11	19	27	14	15	10	25	
	40	11		21	17	20	22		11	
N3QLY3	Yfiler™ Plus									
4sp	37,39	14	15	12	28	23	10	11	13	
	16	10	11	19	27	14	15	10	25	
	40	11		21	17	20	22		11	
NCEHZ4	PowerPlex® Y 23									
4sp		14	15	12	28	23	10	11	13	
	16	10	11	19		14	15		25	
		11	13	21	17		22	12	11	

TABLE 3

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 4sp - YSTR Results</b>									
NVBB39	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
P2E3X7	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
P4FE9C	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
PC8PKT	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
PLA2MN	Yfiler™ Plus								
4sp	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
Q7KALN	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
QAE79T	Yfiler™ Plus								
4sp	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
QFN9LA	PowerPlex® Y 23								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
QJR4AJ	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
QLCYNC	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
RB6QD4	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
RNVHX9	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4sp - YSTR Results

RP7H3F	PowerPlex® Y 23								
4sp	14	15	12	28	23	10	11	13	
	16	10	11	19	14	15		25	
	11	13	21	17		22	12	11	
RVWTCD	PowerPlex® Y 23								
4sp	14	15	12	28	23	10	11	13	
	16	10	11	19	14	15		25	
	11	13	21	17		22	12	11	
RWQK4Q	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
RX6RY8	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
RZNZVL	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
RZRHXQ	Yfiler™								
4sp	14	15	12	28	23	10	11	13	
	16	10	11	19	14	15			
						22		11	
T43YLL	Yfiler™								
4sp	14	15	12	28	23	10	11	13	
	16	10	11	19	14	15			
						22		11	
T4RYW7	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
T6FJEW	PowerPlex® Y 23								
4sp	14	15,15	12	28	23	10	11	13	
	16	10	11	19	14	15		25	
	11	13	21	17		22	12	11	
T78M2B	Yfiler™ Plus								
4sp	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
TBNWA9	Yfiler™ Plus								
4sp									
TFHVX6	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4sp - YSTR Results

TMHEVU	PowerPlex® Y 23								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
TMTDV6	Yfiler™								
4sp	N/A	14	15,15	12	28	23	10	11	13
	16	10	11	19	N/A	14	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
TNQMR8	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
TUL294	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
TW9Z2R	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
U42G8M	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
UFCUFB	PowerPlex® Y 23								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
UVRWZK	Yfiler™								
4sp		14	15,15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
V4HTLM	PowerPlex® Y 23								
4sp		14	15,15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
VDM3QQ	PowerPlex® Y 23								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
VGPU84	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
VJTPNL	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4sp - YSTR Results

VKKR9F	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
VZF29F	Yfiler™ Plus								
4sp	37,39	14	15,15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
WBDCZM	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
WRGRGG	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
X6G8KN	PowerPlex® Y 23								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
XGV3ZM	PowerPlex® Y 23								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
XH9JBF	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
XKDC28	PowerPlex® Y 23								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
XMFC26	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
YFFACY	Yfiler™								
4sp	N/A	14	15	12	28	23	10	11	13
	16	10	11	19	N/A	14	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
YQ28PH	PowerPlex® Y 23								
4sp		14	15,15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
YXGW4X	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11

TABLE 3

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4sp - YSTR Results

YXYXC	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
Z2ZD4G	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
Z3RFNC	Yfiler™								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		
							22		11
Z7PYNP	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11
Z9W9UZ	PowerPlex® Y 23								
4sp		14	15	12	28	23	10	11	13
	16	10	11	19		14	15		25
		11	13	21	17		22	12	11
ZVJBGJ	Yfiler™ Plus								
4sp	37,39	14	15	12	28	23	10	11	13
	16	10	11	19	27	14	15	10	25
	40	11		21	17	20	22		11



# Additional DNA Results

## TABLE 4

Additional DNA results found to be concordant at a pre-existing locus are retained solely within the applicable tables. Non-concordant results and results for loci not found elsewhere will remain in this table.

Locus	WebCode	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4	Item 4e	Item 4sp
AMG	8V3HQA						X,Y		
D1	8V3HQA						11,(15),17.3		
D10	8V3HQA						14,(16)		
D12	8V3HQA						17,18		
D16	8V3HQA						11,12,13		
D18	8V3HQA						13,(15),16,(17),18		
D19	8V3HQA						11,14,(15),(17)		
D21	8V3HQA						28,31,(31.2),32.2		
D22	8V3HQA						15,(16)		
D2S1	8V3HQA						(17),20,(22),23		
D2S4	8V3HQA						10,14		
D3	8V3HQA						15,(17)		
D8	8V3HQA						10,13,14,(16)		
FGA	8V3HQA						19,(20),22.2		
QS1	B4H92Q	Q	Q						
	RWTCDC	Q	Q	Q				Q	Q
QS2	B4H92Q	S	S						
	RWTCDC	S	S	S				S	S
SE33	8V3HQA						16,29.2,30.2,(31.2)		
THO	8V3HQA						6,8,9.3		
VWA	8V3HQA						14,16,(18),19		

# DNA Interpretations

Based on results obtained from DNA analysis, could the Victim (Item 1) and/or the Suspect (Item 2) be a contributor to the questioned stains (Items 3 & 4)?

TABLE 5

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
22TQ4E	Yes	Yes	Yes	No	4C3HQR	Yes	Yes	Yes	No
243KYE	Yes	Yes	Yes	No	4E2J7A	Yes	Yes	Yes	No
2D3EMC	Yes	Yes	Yes	No	4EUZLL	Yes	Yes	Yes	No
2EWYYB	No Interpretations Reported, DNA Analyzed for Database purposes only.				4FMRV7	No Interp	No Interp	Yes	No
2FD9WJ	Yes	Yes	Yes	No	4H2U3A	Yes	Yes	Yes	No
2HHXYR	Yes	Yes	Yes	No	4M8RBJ	Yes	Yes	Yes	No
2L99VJ	Yes	Yes	Yes	No	4MAK87	Yes	Yes	Yes	No
2N6LVH	Yes	Yes	Yes	No	4MG9YG	Yes	Yes	Yes	No
2QB3ZF	Yes	Yes	Yes	No	4NCR2H	Yes	Yes	Yes	No
2QB99M	Yes	Yes	Yes	No	4P9CLW	Yes	Yes	Yes	No
2R6WRH	Yes	Yes	Yes	No	4T9DTK	Yes	Yes	Yes	No
2RNMRP	Yes	Yes	Yes	No	4TA2FQ	Yes	Yes	Yes	No
2XN7TZ	No Interpretations Reported, DNA Analyzed for Database purposes only.				4TQC2C	Yes	Yes	Yes	No
3BRW47	Yes	Yes	Yes	No	4U3V3A	Yes	Yes	Yes	No
3GGG62	Yes	Yes	Yes	No	4VEUCA	Yes	Yes	Yes	No
3JPK4J	Yes	Yes	Yes	No	62JTKE	Yes	Yes	Yes	No
3KJ7WA	No Interpretations Reported, DNA Analyzed for Database purposes only.				66YDXU	Yes	Yes	Yes	No
3N2JL4	Yes	Yes	Yes	No	67B9HZ	No Interp	No Interp	Yes	No
3Q3PKH	Yes	Yes	Yes	No	688GWC	Yes	Yes	Yes	No
3RWD4D	Yes	Yes	Yes	No	69K6JW	Yes	Yes	Yes	No
3WCRZK	Yes	Yes	Yes	No	6C2F82	Yes	Yes	Yes	No
43E3RB	Yes	Yes	Yes	No	6DCF7F	Yes	Yes	Yes	No
44CJVZ	Yes	Yes	Yes	No	6DE24G	Yes	Yes	Yes	No
487EJZ	Yes	Yes	Yes	No	6J3NYM	Yes	Yes	Yes	No
49MC7Y	Yes	Yes	Yes	No	6M3W6H	Yes	Yes	Yes	No
4AGZNU	Yes	Yes	Yes	No	6NVNE4	Yes	Yes	Yes	No
					6V9TTV	Yes	Yes	Yes	No
					6YARC2	Yes	Yes	Yes	No

TABLE 5

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
76ZETR	Yes	Yes	Yes	No	A6MAMQ	Yes	Yes	Yes	No
78HQEB	Yes	Yes	Yes	No	A7TXK3	Yes	Yes	Yes	No
78LFBL	Yes	Yes	Yes	No	A97GY7	Yes	Yes	Yes	No
7MYR2T	Yes	Yes	Yes	No	A9G82V	Yes	Yes	Yes	No
7V99M8	Yes	Yes	Yes	No	ALRLEF	Yes	Yes	Yes	No
7VNCCT	Yes	Yes	Yes	No	ANECAT	Yes	Yes	Yes	No
7YPLDM	Yes	Yes	Yes	No	AYYUUD	Yes	Yes	Yes	No
834PGB	Yes	Yes	Yes	No	AZM4Q8	Yes	Yes	Yes	No
84EEX2	Yes	Yes	Yes	No	B24JWL	Yes	Yes	Yes	No
86EK89	No Interp	Yes	Yes	No	B4H92Q	Yes	Yes	Yes	No
8EWZAB	Yes	Yes	Yes	No	B7A8JV	Yes	Yes	Yes	No
8HG27H	Yes	Yes	Yes	No	B8AB4X	Yes	Yes	Yes	No
8NPD8P	Yes	Yes	Yes	No	BAC8FL	Yes	Yes	Yes	No
8V3HQA	Yes	Yes	Yes	No	BHKVEE	Yes	Yes	Yes	No
8YHT3R	Yes	Yes	Yes	No	BMLR9F	Yes	Yes	Yes	No
93KUWN	Yes	Yes	Yes	No	BNEHHZ	Yes	Yes	Yes	No
93ZBU2	Yes	Yes	Yes	No	BNUXGA	Yes	Yes	Yes	No
97E6FZ	Yes	Yes	Yes	No	BP2CLU	Yes	Yes	Yes	No
9AULN6	Yes	Yes	Yes	No	BRT7PQ	Yes	Yes	Yes	No
9CQWYZ	Yes	Yes	Yes	No	BRTHBK	Yes	Yes	Yes	No
9JQFYA	Yes	Yes	Yes	No	BUL9K7	Yes	Yes	Yes	No
9K3ZZ8	Yes	Yes	Yes	No	BV7CY6	Yes	Yes	Yes	No
9LVNPU	Yes	Yes	Yes	No	BVC82P	Yes	Yes	Yes	No
9NKDN2	No Interp	No Interp	Yes	No	BWRQLM	Yes	Yes	Yes	No
9PVZKU	Yes	Yes	Yes	No	C6E2HV	Yes	Yes	Yes	No
9YYBEC	Yes	Yes	Yes	No	CEYEF7	Yes	Yes	Yes	No
9ZA76B	Yes	Yes	Yes	No	CGACTN	No Interpretations Reported, DNA Analyzed for Database purposes only.			
9ZJTWQ	Yes	Yes	Yes	No	CGNR8P	Yes	Yes	Yes	No
A3WB78	Yes	Yes	Yes	No	CV97FP	Yes	Yes	Yes	No
A4N6VV	No Interp	No Interp	No Interp	No Interp	D2VECU	Yes	Yes	Yes	No

TABLE 5

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
D77BEH	Yes	Yes	Yes	No	FGUEXZ	Yes	Yes	Yes	No
D9TXJQ	Yes	Yes	Yes	No	FMLEHM	Yes	Yes	Yes	No
DA8BEE	Yes	Yes	Yes	No	FMY4LZ	Yes	Yes	Yes	No
DCCYVQ	Yes	Yes	Yes	No	FQ86Z6	Yes	Yes	Yes	No
DGKM87	Yes	Yes	Yes	No	FQMLXJ	Yes	Yes	Yes	No
DJCJXL	Yes	Yes	Yes	No	FT6UUX	Yes	Yes	Yes	No
DN4T4D	Yes	Yes	Yes	No	FTMQEK	Yes	Yes	Yes	No
DPY9HV	Yes	Yes	Yes	No	FVXCLY	Yes	Yes	Yes	No
DQPGHY	Yes	Yes	Yes	No	FYFYTC	Yes	Yes	Yes	No
DUDV79	Yes	Yes	Yes	No	G2H7MP	Yes	Yes	Yes	No
DY2M7P	Yes	Yes	Yes	No	G3CU6K	Yes	Yes	Yes	No
DY3N29	Yes	Yes	Yes	No	G6FRAL	Yes	Yes	Yes	No
E33YVM	Yes	Yes	Yes	No	G8ZMPY	Yes	Yes	Yes	No
E34P4Q	Yes	Yes	Yes	No	GDBMCP	Yes	Yes	Yes	No
E3VZ86	Yes	Yes	Yes	No	GEPZ6T	No Interp	No Interp	Yes	No
E6PKK4	Yes	Yes	Yes	No	GKVQJT	Yes	Yes	Yes	No
ECP2VA	Yes	Yes	Yes	No	GM29JA	Yes	Yes	Yes	No
EKKMRG	Yes	Yes	Yes	No	GM3W8E	Yes	Yes	Yes	No
ENGVYQ	Yes	Yes	Yes	No	GQTJBY	Yes	Yes	Yes	No
EPD4D3	Yes	Yes	Yes	No	GQYLDZ	Yes	Yes	Yes	No
ETBPZY	Yes	Yes	Yes	No	GXZNNT	Yes	Yes	Yes	No
EXBPLP	Yes	Yes	Yes	No	GYHNXA	Yes	Yes	Yes	No
F2F7WW	Yes	Yes	Yes	No	H2NYP3	Yes	Yes	Yes	No
FAXC2G	Yes	Yes	Yes	No	H4JEMT	Yes	Yes	Yes	No
FAZ46H	Yes	Yes	Yes	No	H8MDRJ	Yes	Yes	Yes	No
FDVN2M	Yes	Yes	Yes	No	H8Y9YJ	Yes	Yes	Yes	No
FEAD6Y	Yes	Yes	Yes	No	H9A22Y	Yes	Yes	Yes	No
FEVX3J	Yes	Yes	Yes	No	H9E37K	Yes	Yes	Yes	No
FFHHK9	Yes	Yes	Yes	No	HG9BNQ	Yes	Yes	Yes	No
FGAL8N	Yes	Yes	Yes	No	HJEVCQ	Yes	Yes	Yes	No

TABLE 5

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
HPG2RU	Yes	Yes	Yes	No	L9NGTW	Yes	Yes	Yes	No
HPZNNQ	Yes	Yes	Yes	No	LDFFDU	Yes	Yes	Yes	No
HRQ3W2	Yes	Yes	Yes	No	LEPH7K	Yes	Yes	Yes	No
HTJXJA	Yes	Yes	Yes	No	LGUFBL	Yes	Yes	Yes	No
HUEGKB	Yes	Yes	Yes	No	LJZQBV	Yes	Yes	Yes	No
HUTQRQ	Yes	Yes	Yes	No	LKX4XN	Yes	Yes	Yes	No
HXR4DU	Yes	Yes	Yes	No	LMRJVE	Yes	Yes	Yes	No
J7HB7K	Yes	Yes	Yes	No	LP88ZJ	Yes	Yes	Yes	No
JA4YXC	Yes	Yes	Yes	No	LPRWCC	Yes	Yes	Yes	No
JCN3FH	Yes	Yes	Yes	No	LQ7DBC	Yes	Yes	Yes	No
JEXVKH	Yes	Yes	Yes	No	LU3867	Yes	Yes	Yes	No
JHGVWR	Yes	Yes	Yes	No	LZLNZ4Y	Yes	Yes	Yes	No
JKXJ8	Yes	Yes	Yes	No	M6H8AE	Yes	Yes	Yes	No
JNMM8A	Yes	Yes	Yes	No	M6YEFW	Yes	Yes	Yes	No
JPXHK2	Yes	Yes	Yes	No	M8MT47	Yes	Yes	Yes	No
JRL3HJ	Yes	Yes	Yes	No	M9XMRT	Yes	Yes	Yes	No
JWFR9X	Yes	Yes	Yes	No	MB438C	Yes	Yes	Yes	No
K27KGJ	Yes	Yes	Yes	No	MBL6Z7	Yes	Yes	Yes	No
K6T7MD	Yes	Yes	Yes	No	MG88YV	Yes	Yes	Yes	No
K8CA74	Yes	Yes	Yes	No	MHLP4M	Yes	Yes	Yes	No
K8UAAT	No Interp	No Interp	No Interp	No Interp	MMFKML	Yes	Yes	Yes	No
KEUHQU	Yes	Yes	Yes	No	MP2CUH	Yes	Yes	Yes	No
KFNBJR	Yes	Yes	Yes	No	MV87ND	Yes	Yes	Yes	No
KFQ9KF	Yes	Yes	Yes	No	MZ3QYP	No Interpretations Reported, DNA Analyzed for Database purposes only.			
KR47R6	Yes	Yes	Yes	No	N2C3CK	Yes	Yes	Yes	No
KTBHGT	Yes	Yes	Yes	No	N3QLY3	Yes	Yes	Yes	No
KY LH66	Yes	Yes	Yes	No	NCEHZ4	Yes	Yes	Yes	No
L29GW9	Yes	Yes	Yes	No	NGBYKB	Yes	Yes	Yes	No
L3TQ9T	Yes	Yes	Yes	No	NKPL9N	No Interpretations Reported, DNA Analyzed for Database purposes only.			
L4ATAZ	Yes	Yes	Yes	No					

TABLE 5

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
NNRHUC	Yes	Yes	Yes	No	RB6QD4	Yes	Yes	Yes	No
NVBB39	Yes	Yes	Yes	No	RBRYV9	Yes	Yes	Yes	No
P2E3X7	Yes	Yes	Yes	No	RJHVAV	Yes	Yes	Yes	No
P4FE9C	Yes	Yes	Yes	No	RKFWKT	Yes	Yes	Yes	No
PA89VD	Yes	Yes	Yes	No	RNVHX9	Yes	Yes	Yes	No
PBJC3A	Yes	Yes	Yes	No	RP7H3F	Yes	Yes	Yes	No
PC8PKT	Yes	Yes	Yes	No	RPQ24F	Yes	Yes	Yes	No
PFTE3K	Yes	Yes	Yes	No	RVWTCB	Yes	Yes	Yes	No
PLA2MN	Yes	Yes	Yes	No	RWQK4Q	Yes	Yes	Yes	No
PQNRWP	Yes	Yes	Yes	No	RWWJR9	Yes	Yes	Yes	No
PVL63M	No Interpretations Reported, DNA Analyzed for Database purposes only.				RX6RY8	Yes	Yes	Yes	No
PZHNBD	Yes	Yes	Yes	No	RZNVVL	Yes	Yes	Yes	No
Q4RFKD	Yes	Yes	Yes	No	RZRHXQ	Yes	Yes	Yes	No
Q6MYQK	Yes	Yes	Yes	No	T37NLC	Yes	Yes	Yes	No
Q7HMY9	Yes	Yes	Yes	No	T43YLL	Yes	Yes	Yes	No
Q7KALN	Yes	Yes	Yes	No	T4RYW7	Yes	Yes	Yes	No
Q9ALD7	Yes	Yes	Yes	No	T6FJEW	Yes	Yes	Yes	No
QAE79T	Yes	Yes	Yes	No	T78M2B	Yes	Yes	Yes	No
QAHLNE	Yes	Yes	Yes	No	TBNWA9	Yes	Yes	Yes	No
QFN9LA	No Interp	No Interp	Yes	No	TE4H3F	No Interpretations Reported, DNA Analyzed for Database purposes only.			
QFTPK9	Yes	Yes	Yes	No	TFHVX6	Yes	Yes	Yes	No
QHUQMQ	Yes	Yes	Yes	No	TJT4P9	Yes	Yes	Yes	No
QJR4AJ	No Interp	No Interp	Yes	No	TMHEVU	Yes	Yes	Yes	No
QKZFPZ	Yes	Yes	Yes	No	TMJ48D	Yes	Yes	Yes	No
QLCYNC	No Interp	No Interp	No Interp	No Interp	TMTDV6	Yes	Yes	Yes	No
QPCBJC	Yes	Yes	Yes	No	TNQMR8	Yes	Yes	Yes	No
QR2TMH	Yes	Yes	Yes	No	TNURZQ	Yes	Yes	Yes	No
QWVC4V	Yes	Yes	Yes	No	TPK7XE	Yes	Yes	Yes	No
QYU4HL	Yes	Yes	Yes	No	TQWYWN	Yes	Yes	Yes	No
R96LRW	Yes	Yes	Yes	No	TUKDKX	Yes	Yes	Yes	No

TABLE 5

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
TUL294	Yes	Yes	Yes	No	WNJEM6	Yes	Yes	Yes	No
TW9Z2R	Yes	Yes	Yes	No	WRGRGG	Yes	Yes	Yes	No
TXYXLR	Yes	Yes	Yes	No	WTW2HU	Yes	Yes	Yes	No
TYCHCG	Yes	Yes	Yes	No	X2FXLE	Yes	Yes	Yes	No
TZMK3L	Yes	Yes	Yes	No	X6G8KN	Yes	Yes	Yes	No
U28XVN	Yes	Yes	Yes	No	X9KTNM	Yes	Yes	Yes	No
U42G8M	Yes	Yes	Yes	No	XAFCKM	Yes	Yes	Yes	No
UBZ4VG	No Interpretations Reported, DNA Analyzed for Database purposes only.				XAG4LC	Yes	Yes	Yes	No
UEZC4X	Yes	Yes	Yes	No	XBNPPH	Yes	Yes	Yes	No
UFCUFB	Yes	Yes	Yes	No	XCWVBJ	Yes	Yes	Yes	No
UKC24U	Yes	Yes	Yes	No	XDFNFM	Yes	Yes	Yes	No
UUFBBJ	Yes	Yes	Yes	No	XGV3ZM	Yes	Yes	Yes	No
UVRWZK	Yes	Yes	Yes	No	XH9JBF	Yes	Yes	Yes	No
UX9LYN	Yes	Yes	Yes	No	XKDC28	Yes	Yes	Yes	No
V3LJ8B	Yes	Yes	Yes	No	XKZNWZ	Yes	Yes	Yes	No
V4HTLM	Yes	Yes	Yes	No	XL9ZD2	No Interp	No Interp	No Interp	No Interp
V4JQWH	No Interpretations Reported, DNA Analyzed for Database purposes only.				XLTE7K	No Interpretations Reported, DNA Analyzed for Database purposes only.			
VDM3QQ	Yes	Yes	Yes	No	XMFC26	No Interp	No Interp	Yes	No
VGPU84	Yes	Yes	Yes	No	XTQ8CU	Yes	Yes	Yes	No
VJAQMG	No Interpretations Reported, DNA Analyzed for Database purposes only.				XVXCD	Yes	Yes	Yes	No
VJTPNL	Yes	Yes	Yes	No	XYZAEP	Yes	Yes	Yes	No
VKKR9F	Yes	Yes	Yes	No	Y8NMTE	Yes	Yes	Yes	No
VXARXX	Yes	Yes	Yes	No	YAQPBA	Yes	Yes	Yes	No
VZF29F	Yes	Yes	Yes	No	YBMYPE	Yes	Yes	Yes	No
W26VB3	Yes	Yes	Yes	No	YFFACY	Yes	Yes	Yes	No
W9DZNV	Yes	Yes	Yes	No	YLMUKP	Yes	Yes	Yes	No
WAJHNC	Yes	Yes	Yes	No	YQ28PH	Yes	Yes	Yes	No
WBDCZM	Yes	Yes	Yes	No	YUKCBA	Yes	Yes	Yes	No
WGH4C7	Yes	Yes	Yes	No	YVRU6N	Yes	Yes	Yes	No
					YXGW4X	Yes	Yes	Yes	No

TABLE 5

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
YXYXC	Yes	Yes	Yes	No					
Z2ZD4G	No Interp	No Interp	No Interp	No Interp					
Z3RFNC	Yes	Yes	Yes	No					
Z7PYNP	Yes	Yes	Yes	No					
Z9W9UZ	Yes	Yes	Yes	No					
ZBG79H	Yes	Yes	Yes	No					
ZBZ2QK	Yes	Yes	Yes	No					
ZD4UHX	Yes	Yes	Yes	No					
ZK7WTP	Yes	Yes	Yes	No					
ZNMBB4	Yes	Yes	Yes	No					
ZVJBGJ	Yes	Yes	Yes	No					

<b>DNA Interpretation</b>					
<b>Response Summary</b>			<b>Participants reporting DNA results: 363</b>		
<i>Based on results obtained from DNA analysis, could the Victim (Item 1) and/or the Suspect (Item 2) be a contributor to the questioned stains (Items 3 &amp; 4)?</i>					
		Victim (Item 1)		Suspect (Item 2)	
		<u>Item 3</u>	<u>Item 4</u>	<u>Item 3</u>	<u>Item 4</u>
Yes		<b>338</b>	<b>339</b>	<b>346</b>	<b>0</b>
No		<b>0</b>	<b>0</b>	<b>0</b>	<b>346</b>
Inc		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
No Interpretation		<b>13</b>	<b>12</b>	<b>5</b>	<b>5</b>
No Response		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Participants analyzing DNA for database purposes only: 12



# Additional Comments

TABLE 6

WebCode	Additional Comments
2FD9WJ	The results reported for Items 3 and 4 were generated using probabilistic genotyping. All alleles deemed possible for any contributor are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in stutter peaks being reported as allelic. Per laboratory protocol the Y-STR markers (DYS391, DYS570 and DYS576) are not used for interpretation other than to determine if at least one male contributor is present. Therefore, for these loci all peaks above the analytical threshold, stutter or allelic, will be reported. Laboratory policy allows for analyst discretion, based upon training and experience, in the selection of screening tests being performed.
2L99VJ	NO SE REALIZÓ LA IDENTIFICACIÓN DE SALIVA Y LA DETECCIÓN DEL CROMOSOMA Y, DEBIDO A QUE ESTOS ANALISIS ESTÁN POR FUERA DEL ALCANCE DEL LABORATORIO. [Requested translation was not provided by time of publication.]
2N6LVH	The results reported for Items 3 and 4 were generated using probabilistic genotyping. All alleles deemed possible for any contributor are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in stutter peaks being reported as allelic. Per laboratory protocol the Y-STR markers (DYS391, DYS570 and DYS576) are not used for interpretation other than to determine if at least one male contributor is present. Therefore, for these loci all peaks above the analytical threshold, stutter or allelic, will be reported. Laboratory policy allows for analyst discretion, based upon training and experience, in the selection of screening tests being performed.
2QB3ZF	^ - indicates peak below stochastic threshold per SOP. # - indicates subtraction performed per SOP.
2R6WRH	The results reported for Items 3 and 4 were generated using probabilistic genotyping. All alleles deemed possible for any contributor are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in stutter peaks being reported as allelic. Per laboratory protocol the Y-STR markers (DYS391, DYS570 and DYS576) are not used for interpretation other than to determine if at least one male contributor is present. Therefore, for these loci all peaks above the analytical threshold, stutter or allelic, will be reported. Laboratory policy allows for analyst discretion, based upon training and experience, in the selection of screening tests being performed.
3BRW47	reporting results with stutter filters on
3GGG62	Semen originating from an unknown male detected on item 4. Y-STR profiling was undertaken on item 1 in error. No profile obtained.
3RWD4D	NR= No results
49MC7Y	male screen performed by qualified Analyst. Results were analyzed by reporting analyst. KM testing performed by reporting analyst. NR = No Results. Item #3 was extracted by differential extraction. The sperm rich fraction had low level peaks, below stochastic threshold. Multiple loci did not have any results and other loci had obvious drop out of one or more alleles. Any loci reported with one allele should not be considered homozygous.
4E2J7A	NR=No DNA types detected
4FMRV7	Item 1 not processed further since test only used for Y-STR analysis.
4H2U3A	For items interpreted with STRmix, the Globalfiler STR results include all possible alleles for all interpreted genotypes. This may incorporate stutter peaks that would have been filtered during conventional analysis. N/R = No result.
4M8RBJ	Item 4 Sp fraction PPY23 - 18 allele at DYS448 is an A/TA, possible elevated stutter, profile assumed to be single source based on our SOP. Item 3 GF - the following locus would not be suitable for comparison/statistical calculations under our SOP: D2S1338.

TABLE 6

WebCode	Additional Comments
4MAK87	Analysis of sexual assaults is not within the scope of the laboratory services. Therefore, no sexual assault screening tests or differential extractions were performed in the completion of this proficiency test. The laboratory does not provide an allele table in the report, therefore, this procedure is used only for reporting the results of proficiency tests. Probabilistic genotyping software was used to aid in the interpretation and statistical analysis of the DNA profiles generated. The results listed in the CTS report for the evidence samples reflect the possible alleles present that were given a weight of at least 99% of being a true allele. Therefore, some expected alleles may not be listed, particularly those that are in the stutter position. Genotypes are listed for reference samples, and 99% weighted alleles present are listed for evidence samples.
4U3V3A	NR = No Result. NT = Not tested. For items interpreted with STRmix, the Globalfiler STR results include all possible alleles for all interpreted genotypes. This may incorporate stutter peaks that would have been filtered during conventional analysis.
62JTKE	I've noticed that over the years the concentration of semen in your samples has diminished significantly to the point where we are having to consume, or nearly consume the entire stain to see few spermatozoa (at best) on the slides we make in lab. It never used to be this way. The stains were robust and spermatozoa were abundant when a reasonable size portion was obtained for serology. Has the cost of semen been such that you have to skimp on the amount you are adding to the fabric swatches in order to keep costs down? We are spending a lot of time going back and re-doing our testing, making multiple slides to find a detectable amount of spermatozoa to call a positive test. The blood-only samples are still robust and the stain is generous and ample for testing. It would be very helpful and efficient for us if you could find a way to return to your previous method of semen sample preparation so that the swatches are adequately infused with spermatozoa. Thanks so much for your time and thoughtful consideration.
66YDXU	Extraction: -Item 1 and Item 2 were punched for direct amplification. -Item 3 and Item 4 (bloodstain) were extracted using Automate Express by Prepfil Express kit. -Item 4 (semen stain) was extracted using differential extraction method. Quantification: -Item 3 and Item 4 were quantified using Quantifiler Trio DNA Quantification kit on QuantStudio 5 Real-Time PCR System. Amplification was performed on ProFlex PCR System for: -Item 1 and Item 2 were amplified using GlobalFiler Express Amplification kit. -Item 3, Item 4 (bloodstain), Item 4(sp) and Item 4 (epi) were amplified using GlobalFiler Amplification kit. -Item 2, Item 3, Item 4 (sp) and Item 4 (epi) were amplified using Y-Filer Kit. Electrophoresis: -All amplified product were run on Genetic Analyzer 3500. Quality Control: -All reagent blank, positive control, negative control, were carried out throughout the analysis and all gave intended results.
69K6JW	Differential extractions were not performed. Therefore complete lysis of the sperm cells for male contributors may not occur. This could result in a partial profile for a minor male component. Stutter filters are established by the laboratory based on validation data and used to filter stutter during examiner analysis. Additionally, the laboratory utilizes a probabilistic genotyping software for data interpretation which models stutter during its probabilistic analysis of the data. Elevated stutter peaks which are above the stutter filters established by the laboratory during the validation may still occur but are handled probabilistically during interpretation by the software. The results for this test contain(s) an elevated allele stutter peak at which is/are being reported to the vendor as an additional comment but which has/have been modeled as stutter probabilistically during interpretation at the following locus/loci: Q4 D16S539 (allele 14)
6J3NYM	The results reported for Items 3 and 4 were generated using probabilistic genotyping. All alleles deemed possible for any contributor are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in stutter peaks being reported as allelic. Per laboratory protocol the Y-STR markers (DYS391, DYS570 and DYS576) are not used for interpretation other than to determine if at least one male contributor is present. Therefore, for these loci all peaks above the analytical threshold, stutter or allelic, will be reported. Laboratory policy allows for analyst discretion, based upon training and experience, in the selection of screening tests being performed.

TABLE 6

WebCode	Additional Comments
6M3W6H	Due to incomplete separation during differential extraction, a mixture was present in the epithelial fraction and the sperm/substrate fraction of Item 4. Item 3 (PowerPlex Y23): 18 allele at DYS390 presented as pull-up, was called off. 14.1 allele at Y GATA H4 presented as pull-up, was called off. Item 4 - Sperm/Substrate Fraction (GlobalFiler): 12 allele at D16S539 presented as elevated +4 stutter and -4 stutter, was called off. 12 allele at D5S818 presented as a possible artifact (elevated +4 stutter) or a possible true allele. 13 allele at D10S1248 presented as a possible artifact (elevated +4 stutter) or a possible true allele. Item 4 - Sperm/Substrate Fraction (PowerPlex Y23): 13.2 allele at DYS570 presented as pull-up, was called off. 19 allele at DYS390 presented as pull-up, was called off. 29 allele at DYS390 presented as pull-up, was called off. 6 allele at DYS643 presented as pull-up, was called off. 14 allele at Y GATA H4 presented as pull-up, was called off. [Initials] 23 May 2022
6V9TTV	Extraction: Item 3 was extracted using Chelex Extraction while Item 4 was extracted using Chelex Differential Extraction. Quantification: Item 3 and Item 4 were quantified using the Quantifiler Human DNA quantitation kit and carried out by 7500 Real-Time PCR. Amplification: Item 1 and Item 2 were amplified using AMPFLSTR Identifiler Direct Kit on 9700 GeneAmp PCR System. Item 3 and Item 4 were amplified using AMPFLSTR Identifiler Plus Kit on 9700 GeneAmp PCR System. Item 2, Item 3 and Item 4 were amplified using AMPFLSTR YFiler Kit on 9700 GeneAmp PCR System. Electrophoresis: The electrophoresis process was carried out by Genetic Analyser 3500xl for Item 1 to Item 4. Quality Control: Reagent blank, positive control, and negative control were carried out along with the analysis and all gave the intended results.
78HQEB	# indicates associated fraction peak(s) subtracted
7MYR2T	NID=no interpretable data. Inclusions and excludsons were conducted by the analyst outside of the STRmix software program. STRmix was used, however to calculate a likelihood ration on the following proposition: item 3: 1s2s_2sU. The following was run as deconvolution only. item4e: 1sU_1sU.
7VNCCT	1. Extraction: In-situ extraction method was used to extract DNA from Item 1 and Item 2. Chelex extraction method was used to extract DNA from Item 3 and Item 4. 2. Quantification: DNA quantification for Item 3 and Item 4 was carried out using Quantifiler Human DNA Quantification Kit with Applied Biosystem Real Time Polymerase Chain Reaction 7500 System. 3. Amplification: Amplification of STR (Short Tandem Repeat) Genetic Loci was carried out on Item 1 and Item 2 using the AmpFISTR Identifiler Direct PCR Amplification Kit, while on Item 3 and Item 4 using the AmpFISTR Identifiler Plus PCR Amplification Kit on the 9700 GeneAmp PCR System. Amplification of Y-STR (Short Tandem Repeat) Genetic Loci was carried out on Item 2, Item 3 and Item 4 using the AmpFISTR Y-Filer PCR Amplification Kit on the 9700 GeneAmp PCR System. 4. Electrophoresis: Electrophoresis was carried out using Applied Biosystem 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 1 and Item 2 (Identifiler Direct) and Item 3 and Item 4 (Identifiler Plus). Electrophoresis for Y-Filer was carried out using Applied Biosystem 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 2, Item 3 and Item 4. 5. Reagent blank, positive control and negative control were carried out throughout the analysis and all gave the intended results.
84EEX2	Results reported with stutter filters on.
86EK89	Minor types were not at a sufficient level for interpretation per our laboratory's interpretation guidelines and were subsequently deemed uninterpretable.
8EWZAB	NR is short for No Results.
8V3HQA	Mixture obtained from Item 3 - DNA result entirely accounted for by presence of victim and suspect DNA. In my opinion the female victim DNA has originated from the blood in the sample. Unable to reliably determine the biological source of the DNA attributable to the male suspect. Differential extraction is carried out prior to DNA extraction - only the sperm enriched fraction from item 4 was submitted for DNA profiling tests. 4+ heads noted - complete male profile from semen enriched fraction - did not match male suspect - Unknown male 1 - in my opinion from the semen in the sample tested. Blood also sampled from item 4 - see additional DNA results - apparent mix of female victim and Unknown male 1. In my opinion, given female victim is known to have been bleeding, finding is what I might expect if blood has originated from her. Unable to determine biological source of Unknown male 1. No YSTR testing undertaken

TABLE 6

WebCode	Additional Comments
93ZBU2	Analysis of sexual assaults is not within the scope of the laboratory services. Therefore, no sexual assault screening tests or differential extractions were performed in the completion of this proficiency test. The laboratory does not provide an allele table in the report, therefore, this procedure is used only for reporting the results of proficiency tests. Probabilistic genotyping software was used to aid in the interpretation and statistical analysis of the DNA profiles generated. The results listed in the CTS report for the evidence samples reflect the possible alleles present that were given a weight of at least 99% of being a true allele. Therefore, some expected alleles may not be listed, particularly those that are in the stutter position. Genotypes are listed for reference samples, and 99% weighted alleles present are listed for evidence samples.
97E6FZ	Results reported with stutter filters ON
9AULN6	NR = no results obtained at this loci
9CQWYZ	Analysis of sexual assaults is not within the scope of the laboratory services. Therefore, no sexual assault screening tests or differential extractions were performed in the completion of this proficiency test. The laboratory does not provide an allele table in the report, therefore, this procedure is used only for reporting the results of proficiency tests. Probabilistic genotyping software was used to aid in the interpretation and statistical analysis of the DNA profiles generated. The results listed in the CTS report for the evidence samples reflect the possible alleles present that were given a weight of at least 99% of being a true allele. Therefore, some expected alleles may not be listed, particularly those that are in the stutter position. Genotypes are listed for reference samples, and 99% weighted alleles present are listed for evidence samples.
9LVNPU	A qualified Forensic Biologist performed the NaOH Y Screen while the DNA Analyst reviewed and interpreted the male screen results. The DNA analyst performed the KM testing. NR = No Results.
9NKDN2	Items 3 and 4 were amplified for Y-STRs only, therefore the victim (Item 1) was not compared to Items 3 and 4.
9PVZKU	NR = No Result. Male Screen extraction not performed by this analyst, but by qualified laboratory technician.
9ZJTWQ	This laboratory does not generate an allele table for the evidence sample results. Therefore this procedure is used only for reporting results for this proficiency test. Evidence results were interpreted using a probabilistic genotyping approach. With probabilistic genotyping analysis, peaks in stutter position are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks reported as possible alleles, which would not affect the overall interpretation of the results. Full profiles were obtained for the epithelial and sperm fraction, however there was an incomplete separation of donors in the epithelial fraction resulting in a mixture. This is a normal observation routinely occurring in casework. NR = no results
A4N6WV	Proficiency performed by technician, laboratory does not allow for interpretation of data by technicians.
A6MAMQ	Differential extractions were not performed. Therefore complete lysis of the sperm cells for male contributors may not occur. This could result in a partial profile for a minor male component.
A7TXK3	NR-No results. NT-Not tested.
AKXXVK	Not interpreted; qualified through capillary electrophoresis and not data analysis.
AZM4Q8	NR = no DNA typing results detected for this locus
B24JWL	NR = No Result. NT = Not Tested.
B7A8JV	For items interpreted with STRmix, the Globalfiler STR results include all possible alleles for all interpreted genotypes. This may incorporate stutter peaks that would have been filtered during conventional analysis.

TABLE 6

WebCode	Additional Comments
B8AB4X	Analysis of sexual assaults is not within the scope of the laboratory services. Therefore, no sexual assault screening tests or differential extractions were performed in the completion of this proficiency test. The laboratory does not provide an allele table in the report; therefore, this procedure is used only for reporting the results of proficiency tests. Probabilistic genotyping software was used to aid in the interpretation and statistical analysis of the DNA profiles generated. The results listed in the CTS report for the evidence samples reflect the possible alleles present that were given a weight of at least 99% of being a true allele. Therefore, some expected alleles may not be listed, particularly those that are in the stutter position. Genotypes are listed for reference samples, and 99% weighted alleles present are listed for evidence samples.
BAC8FL	NR=no results
BHKVEE	NR = no result
BNEHHZ	Analysis of sexual assaults is not within the scope of the laboratory services. Therefore, no sexual assault screening tests or differential extractions were performed in the completion of this proficiency test. The laboratory does not provide an allele table in the report, therefore, this procedure is used only for reporting the results of proficiency tests. Probabilistic genotyping software was used to aid in the interpretation and statistical analysis of the DNA profiles generated. The results listed in the CTS report for the evidence samples reflect the possible alleles present that were given a weight of at least 99% of being a true allele. Therefore, some expected alleles may not be listed, particularly those that are in the stutter position. Genotypes are listed for reference samples, and 99% weighted alleles present are listed for evidence samples.
BV7CY6	^ = indicates peaks below stochastic threshold as per [Laboratory] policy
BVC82P	Differential extractions were not performed. Therefore complete lysis of the sperm cells for male contributors may not occur. This could result in a partial profile for a minor male component.
BVTMVT	Please note, test number 22-5703 was used for screening testing only and not for STR analysis.
BWRQLM	Differential extractions were not performed. Therefore complete lysis of the sperm cells for male contributors may not occur. This could result in a partial profile for a minor male component. Stutter filters are established by the laboratory based on validation data and used to filter stutter during examiner analysis. Additionally, the laboratory utilizes a probabilistic genotyping software for data interpretation which models stutter during its probabilistic analysis of the data. Elevated stutter peaks which are above the stutter filters established by the laboratory during the validation may still occur but are handled probabilistically during interpretation by the software. The results for this test contain(s) (n) elevated stutter peak(s) which is/are being reported to the vendor as an additional comment, but which has/have been modeled as stutter probabilistically during interpretation at the following locus/loci: Item 4, vWA, allele 17.
C6E2HV	The probabilistic genotyping software, STRmix, was used for DNA interpretation. All potential alleles considered during deconvolution have been reported.
CGNR8P	NR = No Results. Male screen test performed by qualified forensic biologist. Male screen interpreted by reporting analyst. DYS391 Concordant between Yfiler Plus and Globalfiler.
D77BEH	Male screening testing done by a member of the Forensic Biology Unit. NR = No Results. Results at DYS391 were concordant for all samples tested with both Globalfiler and Yfiler Plus.
D9TXJQ	NR = no results
DGKM87	The results reported for Items 3 and 4 were generated using probabilistic genotyping. All alleles deemed possible for any contributor are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in stutter peaks being reported as allelic. Per laboratory protocol the Y-STR markers (DYS391, DYS570 and DYS576) are not used for interpretation other than to determine if at least one male contributor is present. Therefore, for these loci all peaks above the analytical threshold, stutter or allelic, will be reported. Laboratory policy allows for analyst discretion, based upon training and experience, in the selection of screening tests being performed.

TABLE 6

WebCode	Additional Comments
DJCJXL	The 21 allele reported at D2S1338 for Item 3 is defined per laboratory protocol as additional data not impacting the interpretation of results for the profile. This peak was further modeled probabilistically using STRmix to support this interpretation.
DPY9HV	Analysis of sexual assaults is not within the scope of the laboratory services. Therefore, no sexual assault screening tests or differential extractions were performed in the completion of this proficiency test. The laboratory does not provide an allele table in the report, therefore, this procedure is used only for reporting the results of proficiency tests. Probabilistic genotyping software was used to aid in the interpretation and statistical analysis of the DNA profiles generated. The results listed in the CTS report for the evidence samples reflect the possible alleles present that were given a weight of at least 99% of being a true allele. Therefore, some expected alleles may not be listed, particularly those that are in the stutter position. Genotypes are listed for reference samples, and 99% weighted alleles present are listed for evidence samples.
DQPGHY	Possible dropout observed in item 3 at D1S1656 and D2S1338 due to preferential amplification of the predominant contributor. Possible alleles below threshold observed for the lesser contributor in allele position 15 (D1S1656) and allele position 20 (D2S1338).
DY3N29	Data not suitable for comparisons under current protocol guidelines. B3-3 (Q1) - vWA, TH01, and D2S1338. B3-4 -Sperm/Substrate fraction A/TAs located at D8S1179 (13), D5S818 (12), and SE33 (28.2).
E33YVM	NR = No results.
E34P4Q	The following STR DNA profiles have been entered into the Combined DNA Index System (CODIS) database in accordance with local, state, and national regulations where regular searches will be performed: the reference DNA profiles from the Victim (EX 01-1) and from the Suspect (EX 02-1). If further analysis is required, then a reference DNA sample from the victim's boyfriend must be submitted to the [Laboratory]. Laboratory policy for statistical conclusions 1. Major/Minor Contributor Profiles a. For a major/minor interpretation where two single source profiles are produced, the analyst may report a RMP statistic for each contributor provided the following conditions are met: 1. All peaks within each profile are accounted for via comparison to a known reference sample. 2. Two alleles are present above the analytical threshold for heterozygous loci. If only one allele is present above the analytical threshold, then that locus will not be used in statistical calculations and it will be documented in the case file. b. A minimum of five complete and matching loci (excluding Amelogenin and DYS391) are required for a RMP statistic to be calculated. c. The analyst may also elect to send this sample to the TA Casework System where LR match statistics may be calculated for incomplete major or minor contributor profiles.
E3VZ86	For item 3 autosomal results, CSF1PO and vWA were left blank because more than one allele combination was entertained at those loci. For CSF1PO the major is either 12,12 or 10,12. For vWA the major is either 14,15 or 14,17 or 15,17.
EXBPLP	analyst does not perform differentials. male screen was only interpreted by analyst.
F2F7WW	NR = No DNA results obtained.
FAXC2G	NR - no results
FAZ46H	Differential extractions were not performed. Therefore complete lysis of the sperm cells for male contributors may not occur. This could result in a partial profile for a minor male component. Stutter filters are established by the laboratory based on validation data and used to filter stutter during examiner analysis. Additionally, the laboratory utilizes a probabilistic genotyping software for data interpretation which models stutter during its probabilistic analysis of the data. Elevated stutter peaks which are above the stutter filters established by the laboratory during the validation may still occur but are handled probabilistically during interpretation by the software. The results for this test contains elevated stutter peaks which are being reported to the vendor as an additional comment but which has/have been modeled as stutter probabilistically during interpretation at the following locus/loci: Exhibit 3 D10S1248 (17), and Exhibit 2 D16S539 (13).
FDVN2M	Reporting with stutter filters on



TABLE 6

WebCode	Additional Comments
FEVX3J	The 15.2 allele reported at D19S433 for Item 3 is defined per laboratory protocol as additional data not impacting the interpretation of results for the profile. This peak was further modeled probabilistically using STRmix to support this interpretation.
FGUEXZ	NR = No results. NT = Not tested.
FQ86Z6	The results reported for Items 3 and 4 were generated using probabilistic genotyping. All alleles deemed possible for any contributor are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in stutter peaks being reported as allelic. Per laboratory protocol the Y-STR markers (DYS391, DYS570 and DYS576) are not used for interpretation other than to determine if at least one male contributor is present. Therefore, for these loci all peaks above the analytical threshold, stutter or allelic, will be reported. Laboratory policy allows for analyst discretion, based upon training and experience, in the selection of screening tests being performed.
FXCLY	Elevated stutter left in due to use of probabilistic genotyping. No brackets on minors or stutter.
G3CU6K	Note: D2S1338 loci in Item 3 was not used for comparisons due to possible dropout.
G6FRAL	Samples analyzed with stutter filter
G8ZMPY	LR was performed with 3 different analysis software, and they support results selected above: Item 3: It1+It2 vs 2 unkn= 1.0e39 (lrmix); 1.7e34 (labretr); 3.6e54 (efm). Item 4: It1 + It2 vs It1 + unkn = 1.5e-53 (lrmix); 4.5e-46 (labretr); 7.2e-129 (efm).
GDBMCP	The probabilistic genotyping software, STRmix, was used for DNA interpretation. All potential alleles considered during deconvolution have been reported.
GEPZ6T	Y-STR analysis only
GM29JA	Abbreviations: NR - no results.
GM3W8E	a qualified Forensic Biologist performed male screening testing. The DNA analyst reviewed and interpreted the male screen results. NR = No Results.
GQYLDZ	NR = no result
GXZNNT	reporting results with stutter filters on
H4JEMT	Reporting results with stutter filters on.
H8MDRJ	Stutter filters are established by the laboratory based on validation data and used to filter stutter during examiner analysis. Additionally, the laboratory utilizes a probabilistic genotyping software for data interpretation which models stutter during its probabilistic analysis of the data. Elevated stutter peaks which are above the stutter filters established by the laboratory during the validation may still occur but are handled probabilistically during interpretation by the software. The results for this test contain(s) (an) elevated stutter peak(s) which is/are being reported to the vendor as an additional comment but which has/have been modeled as stutter probabilistically during interpretation at the following locus/loci: Item 4, allele 17 at vWA. Differential extractions were not performed. Therefore complete lysis of the sperm cells for male contributors may not occur. This could result in a partial profile for a minor male component.
H8Y9YJ	Hypothesis for Item 3 in LRmix studio v 2.1.3: Item 1 + Item 2 / Item 2 + 1 Unknown LR= 1,5716 E021. (Dropout Probability 0.0, Probability of dropin: 0,05, theta correction: 0,01, Allele Frequencies take from www.strider.online). Hypothesis for Item 4 in LRmix studio v 2.1.3: Item 1 / 1 Unknown LR= 5,3574 E026. (Dropout Probability 0.0, Probability of dropin: 0,05, theta correction: 0,01, Allele Frequencies take from www.strider.online). Item 2 is not considered as a possible contributor to the Item 4. In Item 4 the DNA profile of the NN male was observed.
HG9BNQ	Reporting results with stutter filters on.
HJEVCQ	results reported with stutter filters on

TABLE 6

WebCode	Additional Comments
HPG2RU	Extraction: Item 1 and Item 2 were extracted using in situ method. Item 3 and Item 4 were extracted using DNA QIASymphony DNA Investigator kit on QIASymphony SP. Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Trio DNA Quantification kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using Globalfiler Express PCR Amplification Kit on ABI Proflex PCR System. Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Y-filer PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4. Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 2 Item 3 and Item 4(Y-Filer Kit). Quality Control: Reagent Blank, Positive Control and Negative Control were carried out during analysis and all gave intended results. NM: Non-male allele.
HPZNNQ	For items interpreted with STRmix, the Globalfiler STR results include all possible alleles for all interpreted genotypes. This may incorporate stutter peaks that would have been filtered during conventional analysis.
HUTQRQ	Item 3: negative for nucleated epithelial cells
HXR4DU	Extraction: Item 1 and Item 2 were extracted using in situ method. Item 3 and Item 4 were extracted using DNA QIASymphony DNA Investigator kit on QIASymphony SP. Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Trio DNA Quantification kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using Globalfiler Express PCR Amplification Kit on ABI Proflex PCR System. Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Item 2, Item 3 and Item 4(sp) were amplified using AmpFLSTR Y-filer PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4. Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 2, Item 3 and Item 4(sp) (Y-Filer Kit). Quality Control: Reagent Blank, Positive Control and Negative Control were carried out during analysis and all gave intended results. NM: Non-male allele.
JEXVKH	NR = No Results. NT = Not Tested. Screening tests performed by a qualified Forensic Biologist and samples transferred to DNA analyst per SOP. KM testing performed by DNA Analyst (Item 3 & Item 4); concordant results where applicable. The DNA analyst reviewed and interpreted the male screen results. #1 & #2 tested with GlobalFiler Express; concordant results generated. No additional testing done. Left as no on page 7.
JHGVMR	-The sperm fraction of item 4 was amplified with Globalfiler and Minifiler. -Concordant results were obtained for the sperm fraction of item 4 with Globalfiler and Minifiler. -The non-sperm fraction of item 4 is a mixture. This could be due to incomplete separation during the differential extraction or a non-sperm source of DNA from the male. No alleles are present that cannot be attributed to either the victim or the male donor from the sperm fraction.
JRL3HJ	NR=No results. This laboratory does not generate an allele table for the evidence sample results. Therefore this procedure is used only for reporting results for this proficiency test. Evidence results were interpreted using a probabilistic genotyping approach. With probabilistic genotyping analysis, peaks in stutter position are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks reported as possible alleles, which would not affect the overall interpretation of the results. Full profiles were obtained for the epithelial and sperm fraction, however there was an incomplete separation of donors in the epithelial fraction resulting in a mixture. This is a normal observation routinely occurring in casework.
JWFR9X	NR - No Result. # - indicates that the associated known donor or corresponding profile was subtracted per [Laboratory] policy
K8UAAT	The known samples were not profiled and no interpretations were reported. The assigned scientist is qualified in extraction and quantitation, but not amplification, CE, or data interpretation. A second scientist profiled Items 3 and 4 to confirm that correct results were obtained.
KFNBJR	reporting with stutter filters on



TABLE 6

WebCode	Additional Comments
KFQ9KF	NID = No Interpretable data. F1 = Fraction 1. F2 = Fraction 2. Inclusions and exclusions were conducted by the analyst outside of the STRmix software program. STRmix was used, however, to calculate a likelihood ratio for the following: Item 3: Proposition: Item2sItem1s_Item2sU; owner = Item 2s. Item 4 Fraction 1: A. Proposition 1: decon; Item1sU_Item1sU; owner = Item 1s. B. Proposition 2 Fraction 1: Item1sU_UU. Item 4 Fraction 2: A. Proposition 1: decon; Item1sU_Item1sU; owner = Item 1s. B. Proposition 2: Item1sU_UU. Per FBU policy, STRmix would not be run in casework for proposition 2 as Item 4 was from the victim (Item 1s, owner). Statistics run for PT purposes only.
KTBHGT	1. Extraction: (i) Item 1 and Item 2 were extracted using in-situ method. (ii) Bloodstains extraction on Item 3 was carried out using QIASymphony DNA Investigator Kit via QIASymphony SP. (iii) Differential extraction of semen stains on Item 4 was carried out using QIASymphony DNA Investigator Kit via QIASymphony SP. 2. Quantification: Item 3 and Item 4 were quantified using Quantifiler Trio on QuantStudio 5 RT-PCR. 3. Amplification on 9700 GeneAmp PCR System and Proflex PCR System (GlobalFiler Express): (i) Item 1 and Item 2 were amplified using GlobalFiler Express PCR Amplification Kit. (ii) Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification Kit. (iii) Item 2, Item 3 and Item 4 were amplified using YFiler PCR Amplification Kit. 4. Electrophoresis were carried out on Genetic Analyzer 3500xL. 5. Quality Control: Reagent blank, positive and negative control were carried out through analysis and all gave intended results.
KURLFE	Participant not qualified in DNA analysis. Only serological screening testing was performed.
LDFFDU	Reporting with stutter filters on.
M6YEFW	For item 3 (sub-item 3A-2): A major/minor mixture was obtained. The sample was re-amplified at a higher template target. The major/minor mixture persisted. Possible preferential amplification of the major contributor may have resulted in possible allelic dropout of the minor component.
MB438C	Extraction: Item 1 and Item 2 were extracted using in-situ method while Item 3 and Item 4 were extracted using Chelex extraction method. Quantification: DNA quantification for Item 3 and Item 4 were carried out using Quantifiler Human DNA Quantification Kit with Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 System. Amplification: Item 1 and Item 2 were amplified using AmFISTR Identifiler Direct Kit while Item 3 and Item 4 were amplified using AmFISTR Plus Kit on 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification was carried out on Item 2, Item 3, and Item 4 using AmFISTR Y-Filer kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on Genetic Analyzer 3500xl for Item1 and Item 2 (Identifiler Direct), Item 3 and Item 4 (Identifiler Plus). Electrophoresis for Y-Filer was carried out on Genetic Analyzer 3500xl for Item 2, Item 3 and Item 4. Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
MG88YV	Elevated stutter observed at several loci in Items 3 and 4
N2C3CK	Biology portion was completed by [Initials] and DNA analysis was completed by [Initials]. *The HemDirect test is not considered a confirmatory test for species (it is considered confirmatory for blood), due to the fact that some upper primates and under some conditions, ferrets, have been reported giving positive results with the HemDirect card. ** The amylase diffusion test is a presumptive test for the presence of amylase, an enzyme found in body fluids including saliva.
NAE6MC	Y-Screening conducted only. DNA Analysis was not performed. Male DNA was indicated on Items 3 and 4.
NGBYKB	This laboratory does not generate an allele table for the evidence sample results. Therefore this procedure is used only for reporting results for this proficiency test. Evidence results were interpreted using a probabilistic genotyping approach. With probabilistic genotyping analysis, peaks in stutter position are considered as either allelic or stutter during the de-convolution of samples. This sometimes results in true stutter peaks reported as possible alleles, which would not affect the overall interpretation of the results. Full profiles were obtained for the epithelial and sperm fraction, however there was an incomplete separation of donors in the epithelial fraction resulting in a mixture. This is a normal observation routinely occurring in casework. NR=No results

TABLE 6

WebCode	Additional Comments
P2E3X7	NR= No Results. Screening tests performed by a qualified Forensic Biologist and samples transferred to DNA analyst per SOP. KM testing performed by DNA analyst (Item 3 & Item 4); concordant results where applicable. The DNA analyst reviewed and interpreted the male screen results. Additional DNA page 7 [Table 4: Additional DNA Results], intended to leave blank unable to unselect "no" choice
P33P4E	Presumptive testing detected the possible presence of blood on Items 3 and 4. Spermatozoa were observed on Item 4, which confirms the presence of semen. Semen was not detected on Item 3. Visual examination with an Alternate Light Source was performed on Items 3 and 4. [Initials] 5/25/22
P4FE9C	Note: per laboratory procedures, a "p" is added to indicate a partial major call or a homozygous locus below MIT. Item 1: TPOX had an 8 allele that was below MIT after re-extract; therefore, 8 allele has a "p" after it to indicate a partial locus, and the locus was not used for statistics.
PA89VD	Differential extractions were not performed. Therefore complete lysis of the sperm cells for male contributors may not occur. This could result in a partial profile for a minor male component.
PBJC3A	Note: Inclusions and exclusions were conducted by the analyst outside of the STRmix software programs. STRmix was used to calculate the following propositions: Item 3: Interpretation - 2sU_2sU; Stat - 1s2s_2sU. Item 4 - Fraction 1: Interpretation - 1sU_1sU; Stat - 1sU_UU. Item 4 - Fraction 2: Stat - 1sU_UU. Fraction 2 Likelihood ratio reflective of evidence - partial profile is carry over from fraction 1. Likelihood ratio reflective of alleles only at 14 loci. Could not exclude item 1 from profile. Per FBU policy, STRmix would not be run on casework on item 4, as the item is from the victim (1s). Stats run for PT purposes only. NID = No Interpretable Data.
PQNRWP	Reporting with stutter filters on
PZHNBD	NR = No result. This laboratory does not generate an allele table for the evidence sample results. Therefore this procedure is used only for reporting results for this proficiency test. Evidence results were interpreted using a probabilistic genotyping approach. With probabilistic genotyping analysis, peaks in stutter position are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks reported as possible alleles, which would not affect the overall interpretation of the results. Full profiles were obtained for the epithelial and sperm fraction, however there was an incomplete separation of donors in the epithelial fraction resulting in a mixture. This is a normal observation routinely occurring in casework.
Q6MYQK	We also performed a semen extraction on item 4. This yielded a pure DNA profile of a man. This DNA profile is different from the DNA profile of the suspect (item 2).
Q7HMY9	This laboratory does not generate an allele table for the evidence sample results. Therefore this procedure is used only for reporting results for this proficiency test. Evidence results were interpreted using a probabilistic genotyping approach. With probabilistic genotyping analysis, peaks in stutter position are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks reported as possible alleles, which would not affect the overall interpretation of the results. Full profiles were obtained for the epithelial and sperm fraction, however there was an incomplete separation of donors in the epithelial fraction resulting in a mixture. This is a normal observation routinely occurring in casework. NR= No Results
QFN9LA	Item 1 (female standard) was not compared to Items 3 or 4 since Y23 analysis was conducted.
QFTPK9	This laboratory does not generate an allele table for the evidence sample results. Therefore this procedure is used only for reporting results for this proficiency test. Evidence results were interpreted using a probabilistic genotyping approach. With probabilistic genotyping analysis, peaks in stutter position are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks reported as possible alleles, which would not affect the overall interpretation of the results. Full profiles were obtained for the epithelial and sperm fraction, however there was an incomplete separation of donors in the epithelial fraction resulting in a mixture. This is a normal observation routinely occurring in casework. NR=No Results.
QJR4AJ	Exhibit 1 was not amplified as there was no male DNA detected.

TABLE 6

WebCode	Additional Comments
QKZFPZ	The results reported for Items 3 and 4 were generated using probabilistic genotyping. All alleles deemed possible for any contributor are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in stutter peaks being reported as allelic. Per laboratory protocol the Y-STR markers (DYS391, DYS570 and DYS576) are not used for interpretation other than to determine if at least one male contributor is present. Therefore, for these loci all peaks above the analytical threshold, stutter or allelic, will be reported. Laboratory policy allows for analyst discretion, based upon training and experience, in the selection of screening tests being performed.
QLCYNC	The known samples were not profiled and no interpretations were reported. The assigned scientist is qualified in extraction through CE but not data interpretation. No screening tests were performed and a differential extraction was performed for both items 3 and 4. A second scientist profiled Items 3 and 4 to confirm that correct results were obtained.
QR2TMH	The laboratory does not provide an allele table in the report, therefore, this procedure is used only for reporting the results of proficiency tests. Probabilistic genotyping software was used to aid in the interpretation and statistical analysis of the DNA profiles generated. The results listed in the CTS report for the evidence samples reflect the possible alleles present that were given a weight of at least 99% of being a true allele. Therefore, some expected alleles may not be listed, particularly those that are in the stutter position. Genotypes are listed for reference samples, and 99% weighted alleles present are listed for evidence samples. Analysis of sexual assaults is not within the scope of the laboratory services. Therefore, no sexual assault screening tests or differential extractions were performed in the completion of this proficiency test.
QYU4HL	For items interpreted with STRmix, the Globalfiler STR results include all possible alleles for all interpreted genotypes. This may incorporate stutter peaks that would have been filtered during conventional analysis. N/R = No typing result. N/T = Not typed.
R8MJXG	Biology testing only. No DNA analysis. The Kastle-Meyer (phenolphthalein) test is considered a presumptive test for the presence of blood. This test alone does not confirm the presence of blood. HemDirect is not considered a confirmatory test for species (it is considered confirmatory for blood) due to the fact that some upper primates and under some conditions, ferrets, have been reported giving positive results with the HemDirect card. The Amylase Radial Diffusion method is considered a presumptive test for saliva. Amylase was not detected by presumptive testing with the amylase radial diffusion method.
R96LRW	Item A-4a E1 fraction (4-e fraction) at D3S1358 has a 16 in back + forward stutter position. Item A-4a E1 fraction (4-e fraction) at vWA has an 18 in back stutter position.
RB6QD4	NR-no results
RBRYV9	Differential extractions were not performed. Therefore complete lysis of the sperm cells for male contributors may not occur. This could result in a partial profile for a minor male component. Stutter filters are established by the laboratory based on validation data and used to filter stutter during examiner analysis. Additionally, the laboratory utilizes a probabilistic genotyping software for data interpretation which models stutter during its probabilistic analysis of the data. Elevated stutter peaks which are above the stutter filters established by the laboratory during the validation may still occur but are handled probabilistically during interpretation by the software. The results for this test contains an elevated stutter peak which is being reported to the vendor as an additional comment but which has been modeled as stutter probabilistically during interpretation at the following locus/loci: Item 4, vWA allele 18.
RKFVKT	The results reported for Items 3 and 4 were generated using probabilistic genotyping. All alleles deemed possible for any contributor are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in stutter peaks being reported as allelic. Per laboratory protocol the Y-STR markers (DYS391, DYS570 and DYS576) are not used for interpretation other than to determine if at least one male contributor is present. Therefore, for these loci all peaks above the analytical threshold, stutter or allelic, will be reported. Laboratory policy allows for analyst discretion, based upon training and experience, in the selection of screening tests being performed.
RNVHX9	NR

TABLE 6

WebCode	Additional Comments
RP7H3F	The probabilistic genotyping software, STRmix, was used for DNA interpretation. All potential alleles considered during deconvolution have been reported.
RVWTC	The probabilistic genotyping software, STRmix, was used for DNA interpretation. All potential alleles considered during deconvolution have been reported.
RWWJR9	Note: Inclusions and exclusions were conducted by the analyst outside of the STRmix software program. STRmix was used to calculate the following propositions: Item 3: 1s2s_2sU. Item 4 (fraction 1): 1sU_UU. Per FBU policy, STRmix would not be run in casework for item 4 as the item was the victim's (1s). Statistic run for PT purposes only. NID= No Interpretable Data. Item 4 fraction 2 had possible carry over from fraction 1. Trace contributor was inconclusive for comparisons. PowerPlex Y23 was run on Item 2, Item 3, Item 4 fraction 1, and Item 4 fraction 2 for sample processing only.
RX6RY8	For Item 3 at D18S51, the "16" allele was not called, as it was filtered as stutter in ArmedXpert and modeled as stutter in STRmix.
T4RYW7	For item 3 at D5S818, the "11" allele was not detected however it was modeled as stutter in STRmix. For item 4e at DYS576, the "14" allele is defined per laboratory protocol as additional data not impacting the interpretation of results for the profile.
TE4H3F	Analyst is not competent in DNA extraction of unknown samples or in DNA profile comparisons, therefore Items 3 and 4 were not tested and no DNA Interpretations were performed.
TMHEVU	Item 3: at D2S1338 one allele <IT; at DYS643 A/TA (no signs of a second contributor). Item 4: Sperm/substrate fraction: minor alleles are consistent with differential carry over, dropout of minor alleles is possible; YSTR not done on epithelial fraction of item 4.
TMJ48D	reporting results with stutter filters on
TNQMR8	Extraction: Item 3 and Item 4 were extracted using the Chelex Extraction Method. Quantification: Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification Kit on Applied Biosystems 7500 Real-Time PCR Systems. Amplification: Item 1 and Item 2 were amplified using AmpFLSTR Identifier Direct PCR Amplification Kit on Applied Biosystems GeneAmp PCR System 9700. With in-situ method, Item 1 and Item 2 were also amplified using AmpFLSTR Yfiler PCR Amplification Kit on Applied Biosystems GeneAmp PCR System 9700. Item 3 and Item 4 were amplified using AmpFLSTR Identifier Plus and Yfiler PCR Amplification Kits on Applied Biosystems GeneAmp PCR System 9700. Electrophoresis: Electrophoresis was carried out on Applied Biosystems 3500xL Genetic Analyzer and the data were analysed with GeneMapper ID-X v1.5 software. Quality control: Reagent Blank, Positive Control and Negative Control were included throughout the analysis and all gave intended results.
TNURZQ	The results reported for Items 3 and 4 were generated using probabilistic genotyping. All alleles deemed possible for any contributor are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in stutter peaks being reported as allelic. Per laboratory protocol the Y-STR markers (DYS391, DYS570 and DYS576) are not used for interpretation other than to determine if at least one male contributor is present. Therefore, for these loci all peaks above the analytical threshold, stutter or allelic, will be reported. Laboratory policy allows for analyst discretion, based upon training and experience, in the selection of screening tests being performed.
TUKDKX	NR is the abbreviation for No DNA Results
TUL294	NR = no results. DNA analyst reviewed and interpreted male screen results performed by different qualified analyst.
TZMK3L	Unable to deduce complete female profile from NSF of item 4
UUFBBJ	The non-sperm fraction of item 4 is mixture. This could be due to incomplete separation during the differential extraction or a non-sperm source of DNA from the donor of the sperm fraction. No alleles are present that cannot be attributed to the victim or the donor of the sperm fraction. Minifiler was also used to amplify item 3. Concordant results were obtained for all loci for GlobalFiler and Minifiler.
VJTPNL	All possible elevated stutter peaks left in data for evidentiary samples (items 3 and 4) as per laboratory procedures for potential STRmix analysis.

TABLE 6

WebCode	Additional Comments
VXWV27	Only serological testing performed. Participant not qualified in DNA analysis.
VZF29F	reporting results with stutter filters on
W26VB3	NR denotes no results. This laboratory does not generate an allele table for the evidence sample results. Therefore this procedure is used only for reporting results for this proficiency test. Evidence results were interpreted using a probabilistic genotyping approach. With probabilistic genotyping analysis, peaks in stutter position are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks reported as possible alleles, which would not affect the overall interpretation of the results. Full profiles were obtained for the epithelial and sperm fraction, however there was an incomplete separation of donors in the epithelial fraction resulting in a mixture. This is a normal observation routinely occurring in casework.
W9DZNV	The results reported for Items 3 and 4 were generated using probabilistic genotyping. All alleles deemed possible for any contributor are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in stutter peaks being reported as allelic. Per laboratory protocol the Y-STR markers (DYS391, DYS570 and DYS576) are not used for interpretation other than to determine if at least one male contributor is present. Therefore, for these loci all peaks above the analytical threshold, stutter or allelic, will be reported. Laboratory policy allows for analyst discretion, based upon training and experience, in the selection of screening tests being performed.
WAJHNC	Analysis of sexual assaults is not within the scope of the laboratory services. Therefore, no sexual assault screening tests or differential extractions were performed in the completion of this proficiency test. The laboratory does not provide an allele table in the report, therefore, this procedure is used only for reporting the results of proficiency tests. Probabilistic genotyping software was used to aid in the interpretation and statistical analysis of the DNA profiles generated. The results listed in the CTS report for the evidence samples reflect the possible alleles present that were given a weight of at least 99% of being a true allele. Therefore, some expected alleles may not be listed, particularly those that are in the stutter position. Genotypes are listed for reference samples, and 99% weighted alleles present are listed for evidence samples.
WGH4C7	NR = no result. This laboratory does not generate an allele table for the evidence sample results. Therefore this procedure is used only for reporting results for this proficiency test. Evidence results were interpreted using a probabilistic genotyping approach. With probabilistic genotyping analysis, peaks in stutter position are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks reported as possible alleles, which would not affect the overall interpretation of the results. Full profiles were obtained for the epithelial and sperm fraction, however there was an incomplete separation of donors in the epithelial fraction resulting in a mixture. This is a normal observation routinely occurring in casework.
WNJEM6	Differential extractions were not performed. Therefore complete lysis of the sperm cells for male contributors may not occur. This could result in a partial profile for a minor male component. Stutter filters are established by the laboratory based on validation data and used to filter stutter during examiner analysis. Additionally, the laboratory utilizes a probabilistic genotyping software for data interpretation which models stutter during its probabilistic analysis of the data. Elevated stutter peaks which are above the stutter filters established by the laboratory during the validation may still occur but are handled probabilistically during interpretation by the software. The results for this test contain(s) an elevated stutter peak(s) which is/are being reported to the vendor as an additional comment but which has/have been modeled as stutter probabilistically during interpretation at the following locus/loci: Item 4-Stain from victims skirt. Peaks 17 (n+4) and 18 (n-4) at vWA locus.
WTW2HU	The results reported for Items 3 and 4 were generated using probabilistic genotyping. All alleles deemed possible for any contributor are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in stutter peaks being reported as allelic. Per laboratory protocol the Y-STR markers (DYS391, DYS570 and DYS576) are not used for interpretation other than to determine if at least one male contributor is present. Therefore, for these loci all peaks above the analytical threshold, stutter or allelic, will be reported. Laboratory policy allows for analyst discretion, based upon training and experience, in the selection of screening tests being performed.

TABLE 6

WebCode	Additional Comments
X2FXLE	NR= no result
XAG4LC	reporting results with stutter filters on
XBNPPH	NR = No result
XCWVBJ	Item 1 - Single source female profile (VICTIM ref). Item 2 - Single source male profile (SUSPECT). Item 3 - Major profile matches SUSPECT, minor contribution from VICTIM. Item 4 (e) - Major profile matches VICTIM, minors could all be accounted for by unknown male (see below). Item 4 (sp) - Major profile does not match VICTIM or SUSPECT (therefore = Unknown male). Possible additional minor trace not suitable for comparisons.
XH9JBF	Extraction: Item 1 and Item 2 extracted using in-situ method. Item 3 extracted using DNA Investigator Kit via QIAAsymphony SP. Item 4 extracted using differential extraction method with DNA Investigator Kit via QIAAsymphony SP. Quantification: Item 3 and Item 4 were quantified using Quantifiler Trio DNA Quantification Kit on RT-PCR QuantStudio 5 System. Amplification: Item 1 and Item 2 were amplified using GlobalFiler Express kit on Proflex PCR System. Item 3 and Item 4 were amplified using GlobalFiler kit on 9700 GeneAmp PCR System. Y-STR amplification was carried out on Item 2, Item 3 and Item 4 using AmFISTR Y-Filer Kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis of GlobalFiler for Item 1, Item 2, Item 3 and Item 4 and Y-Filer for Item 2, Item 3 and Item 4 were carried out on Genetic Analyzer 3500xL. Quality Control: Reagent blank, positive control and negative control were incorporated throughout the analysis and all gave the intended results. NM: non-male profile.
XL9ZD2	Modified Rapid DNA analysis conducted on Item 1 and 2 using ANDE I-chip. Item 1 - met laboratory threshold for interpretation. Items 3 and 4 not processed, no DNA interpretation conducted. NID= no interpretable data.
XTQ8CU	The results reported for Items 3 and 4 were generated using probabilistic genotyping. All alleles deemed possible for any contributor are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in stutter peaks being reported as allelic. Per laboratory protocol the Y-STR markers (DYS391, DYS570 and DYS576) are not used for interpretation other than to determine if at least one male contributor is present. Therefore, for these loci all peaks above the analytical threshold, stutter or allelic, will be reported. Laboratory policy allows for analyst discretion, based upon training and experience, in the selection of screening tests being performed.
Y7REE4	Visual examination with an alternate light source was performed on items 3 and 4. Presumptive testing detected the possible presence of blood on Items 3 and 4. Spermatazoa were observed on Item 4, which confirms the presence of semen. Semen was not detected on Item 3. CTS Item 3 corresponds to PR Y7REE4 Item 1C. CTS Item 4 corresponds to PR Y7REE4 Item 1D. [Initials] 5/12/2022
Y8NMTE	Minifiler was also used to amplify item 3. Concordant results were obtained for item 3 with GlobalFiler and Minifiler. The non-sperm fraction of item 4 is a mixture. This could be due to incomplete separation during the differential extraction or a non-sperm source of DNA from the male donor. No alleles are present that cannot be attributed to the victim or the male donor from the sperm fraction.
YBMYPE	MiniFiler was also used to amplify item 3. Concordant results were obtained with item 3 for Globalfiler and MiniFiler. The non-sperm fraction of item 4 is a mixture. This could be due to incomplete separation during the differential extraction or a non-sperm source of DNA from the semen donor. No alleles are present that cannot be attributed to either the victim or the semen donor from the sperm fraction.
YUKCBB	Stutter filters are established by the laboratory based on validation data and used to filter stutter during examiner analysis. Additionally, the laboratory utilizes a probabilistic genotyping software for data interpretation which models stutter during its probabilistic analysis of the data. Elevated stutter peaks which are above the stutter filters established by the laboratory during the validation may still occur but are handled probabilistically during interpretation by the software. The results for this test contain(s) (an) elevated stutter peak(s) which is/are being reported to the vendor as an additional comment but which has/have been modeled as stutter probabilistically during interpretation at the following locus/loci: Item 4, vWa, Allele 17. Differential extractions were not performed. Therefore complete lysis of the sperm cells for male contributors may not occur. This could result in a partial profile for a minor male component

TABLE 6

WebCode	Additional Comments
Z2ZD4G	The known samples were not profiled and no interpretations were reported. The assigned scientist is qualified in extraction through CE but not data interpretation. A second scientist profiled Items 3 and 4 to confirm that correct results were obtained.
ZBG79H	I had a full 21 loci deduced profile for item 4e. See notes packet for sample Q1.4.1e#. Item 3s would have been reported as no conclusions made because most of the data was below ST. See notes packet for sample Q1.3.1s.
ZBZ2QK	^ indicates peaks below stochastic threshold as per [Laboratory] policy

-End of Report-  
(Appendix may follow)



## Test No. 22-5703: Forensic Biology

DATA MUST BE SUBMITTED BY **June 21, 2022, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: 6KFQRU

The Accreditation Release section can be accessed by using the "Continue to Final Submission" button above. This information can be entered at any time prior to submitting to CTS.

### **Scenario:**

Police are investigating a sexual assault involving a female victim and male suspect. The victim reported to police that she attended a party with her boyfriend last night. She recounts drinking and feeling dizzy. The next morning, she awoke with severe injuries to her breasts and her skirt around her ankles. She immediately contacted the police. A suspect was identified and soon apprehended after police interviewed several people that attended the party. The boyfriend is not identified as a suspect at this time. Investigators are submitting a stain from the shirt the suspect was wearing at the party (Item 3) and a stain from the skirt the victim was wearing (Item 4). Also collected were known blood samples from the female victim (Item 1) and the male suspect (Item 2). The boyfriend's standard has not been collected.

### **Items Submitted (Sample Pack B3):**

Item 1: Known blood from the female victim

Item 2: Known blood from the male suspect

Item 3: Questioned stain from suspect's shirt (pink)

Item 4: Questioned stain from victim's skirt (off-white)



### Part I: SCREENING TESTS

**Note: Laboratories submitting their results for ASCLD/LAB or NATA accreditation MUST identify any screening tests performed and report the test results.**

Indicate the results of any screening tests performed on the questioned stains (Items 3 & 4).

Please use the abbreviations listed in this response key to fill in the Screening Test tables on this tab. This is not an all inclusive list of tests, and should not be used to determine what tests should be performed.

TESTS NOT ON THIS LIST MAY BE USED FOR SCREENING.

Test	Abbreviation	Test	Abbreviation
Acid Phosphatase	AP	Alternate Light Source	ALS
Kastle Meyer	KM	Leucomalachite Green	LMG
Microscopic	Micro	Ortho-tolidine	O-tol
Phenolphthalein-Tetramethyl benzidine	PTMB	Prostate Specific Antigen	PSA
Rapid Stain Identification	RSID	Tetramethyl benzidine	TMB

Example:	<u>Positive</u>	<u>Negative</u>	<u>Inconclusive</u>	<u>Not Tested</u>	<u>Test(s) Performed</u>
Blood	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	KM, O-tol, PTMB
Semen	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	PSA
Saliva	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Human Origin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Y-Screening (male DNA)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
Other Specified Body Fluid	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Please indicate the Test(s) Performed on the corresponding line for each type of screening.

Item 3:	<u>Positive</u>	<u>Negative</u>	<u>Inconclusive</u>	<u>Not Tested</u>	<u>Test(s) Performed</u>
Blood	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>
Semen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>
Saliva	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>
Human Origin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>
Y-Screening (male DNA)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>
Other: <input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>

Item 4:	<u>Positive</u>	<u>Negative</u>	<u>Inconclusive</u>	<u>Not Tested</u>	<u>Test(s) Performed</u>
Blood	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>
Semen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>
Saliva	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>
Human Origin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>
Y-Screening (male DNA)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>
Other: <input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>











### Part III: DNA INTERPRETATION

Based on results obtained from DNA analysis, could the Victim (Item 1) and/or the Suspect (Item 2) be a contributor to the questioned stains (Items 3 & 4)?

		<u>Victim (Item 1).</u>		<u>Suspect (Item 2).</u>	
		Item 3	Item 4	Item 3	Item 4
Yes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Yes	<input type="radio"/>
No	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	No	<input type="radio"/>
Inconclusive	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Inconclusive	<input type="radio"/>
No Interpretation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	No Interpretation	<input type="radio"/>

DNA interpretations not reported; samples analyzed for database purposes only:

### Part IV: ADDITIONAL COMMENTS

- Use this section to report comments regarding any part of this test.
- Written conclusions (including statistical information) for DNA analysis are not required.
- Any interpretations based on the results obtained should be indicated in the section above.
- Note: Laboratories submitting their results for accreditation are asked to report any additional information that will assist in the review of their results. This includes an explanation of any deviations from a full completion of the test and/or unique findings such as elevated stutter.

**Please note:** Any additional formatting applied in the free form space below will not transfer to the Summary Report and may cause your information to be illegible. This includes additional spacing and returns that present your responses in lists and tabular formats.

## RELEASE OF DATA TO ACCREDITATION BODIES

The Accreditation Release is accessed by pressing the "Continue to Final Submission" button online and can be completed at any time prior to submission to CTS.

CTS submits external proficiency test data directly to ASCLD/LAB, ANAB, and/or A2LA. Please select one of the following statements to ensure your data is handled appropriately.

- This participant's data is intended for submission to ASCLD/LAB, ANAB, and/or A2LA. (Accreditation Release section below must be completed.)
- This participant's data is **not** intended for submission to ASCLD/LAB, ANAB, and/or A2LA.

Have the laboratory's designated individual complete the following steps only if your laboratory is accredited in this testing/calibration discipline by one or more of the following Accreditation Bodies.

### Step 1: Provide the applicable Accreditation Certificate Number(s) for your laboratory.

ANAB Certificate No.   
(Include ASCLD/LAB Certificate here)

A2LA Certificate No.

### Step 2: Complete the Laboratory Identifying Information in its entirety

Authorized Contact Person and Title

Laboratory Name

Location (City/State)