



## **DNA-Mixture Test No. 21-5801**

### **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 167 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 clean, white muslin fabric (Items 1 & 2), and two questioned stains; one on clean pink fabric (Item 3) and one on clean, off-white fabric (Item 4). Participants were requested to analyze these items using their existing protocols.

**SAMPLE PREPARATION:** The stains in Items 1, 2, and 4 were prepared using human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. The stain in Item 3 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 (50  $\mu$ l) was created using blood from a female donor. Items 2 (50  $\mu$ l) and 4 (50  $\mu$ l) were created using blood from the same male donor. Item 3 (50  $\mu$ l) was created using a 1:1 mixture of blood from the female donor found 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 January 4, 2021 following receipt of predistribution results.

**SAMPLE SET ASSEMBLY:** For each sample set, all four Items (1-4) were packed into separate envelopes and then placed together in a pre-labeled sample pack envelope. 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	15,16	21,25	11,11	16,16	9,11	*
	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23	10,11	8,13	28.2,28.2	8,9.3	8,11
	14,17	NM	NM	NM	NM	
2	15.3,16	25,26	10,15	15,15	11,11	*
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	17	2	
3-Blood	15,16	21,25	11,11	16,16	9,11	*
	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23	10,11	8,13	28.2,28.2	8,9.3	8,11
	14,17	NM	NM	NM	NM	
3-Semen	15,17.3	20,23	10,11.3	15,15	9,11	*
	8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24	9,13	10,11	18,25.2	6,8	8,12
	14,19	11	*	*	2	
4	15.3,16	25,26	10,15	15,15	11,11	*
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	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	Y GATA H4
2	36,38	15	11,14	13	29	24	10	11	13
	14	11	12	20	32	17	16	11	26
	43	12	12	18	17	16	23	10	12
3-Semen	37,39	16	14,15	13	31	24	11	11	13
	15	10	12	21	32	15	17	10	30
	40	12	*	18	18	20	23	*	11
4	36,38	15	11,14	13	29	24	10	11	13
	14	11	12	20	32	17	16	11	26
	43	12	12	18	17	16	23	10	12

\* 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 21-5801 DNA-Mixture test is part of the Sample Specific Series, where participants are advised of the body fluid(s) that make up the questioned stains. The test is designed to allow participants to assess their proficiency in the analysis of dried stains. 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. Items 2 and 4 were created using blood from the same male donor. Item 3 was created using a 1:1 mixture of blood from the female donor from Item 1 and semen from a male donor whose known standard was not provided. (See manufacturers information for preparation details.)

All but one of the 167 participants that returned results reported DNA interpretations.

For the Item 3 stain, all of the participants that reported interpretations included the victim (Item 1) as a possible contributor. All but one of the participants that reported interpretations excluded the suspect (Item 2) as a possible contributor to Item 3. This one remaining participant was inconclusive as to whether the suspect was a contributor to the stain.

For the Item 4 stain, all of the participants that reported interpretations excluded the victim (Item 1) and included the suspect (Item 2) as a possible contributor.

A total of 35 participants reported the use of Probabilistic Genotyping (PG) software on either solely the questioned items or all four items. Five participants reported additional alleles at one or more loci, all of which reported in their additional comments that stutter may be included in the DNA results.

Eight additional participants reported allelic responses that differed from the consensus/predistribution results for one or more items. The breakdown of inconsistencies is as follows: four reported additional alleles for one or more items, two were missing an allele at a single locus, and two reported allelic results that differed from the consensus at one or more loci. Based on the interpretations above, these inconsistencies did not appear to affect these participants' conclusions.

# STR Amplification Kit(s) & Results

TABLE 1

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

23GBBQ	GlobalFiler™					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12
		14,20	13,14	29,30	16,18	X
		16.1,23			28.2	8,9.3
		14,17				8,11
24BW9N	GlobalFiler™ (STRmix)					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12
		14,20	13,14	29,30	16,18	X
		16.1,23			28.2	8,9.3
		14,17				8,11
28R4NB	PowerPlex® Fusion					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12
		14,20	13,14	29,30	16,18	X
		16.1,23	10,11	8,13		8,9.3
		14,17				8,11
2EUB8K	Investigator® 24plex (STRMix)					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12
		14,20	13,14	29,30	16,18	X,X
		16.1,23			28.2,28.2	8,9.3
		14,17				8,11
2J22BQ	PowerPlex® Fusion					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12
		14,20	13,14	29,30	16,18	X
		16.1,23	10,11	8,13		8,9.3
		14,17	NR			8,11
2UJLUM	GlobalFiler™					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12
		14,20	13,14	29,30	16,18	X,X
		16.1,23			28.2,28.2	8,9.3
		14,17				8,11

TABLE 1

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

2X8WUR	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
3BME2L	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
3L9J9L	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
3RDK6A	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
3WPHJN	PowerPlex® Fusion					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					
4DPR3K	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17	0,0			0,0	
4GZBX2	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					

TABLE 1

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

4UD3PM	PowerPlex® Fusion					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12
		14,20	13,14	29,30	16,18	X
		16.1,23	10,11	8,13		8,9.3
		14,17				8,11
66EQGJ	PowerPlex® 21 (STRmix 2.7)					
		15,16	21,25		16,16	9,11
1		11,11	14,15		17,20	12,12
		14,20	13,14	29,30		X,X
		16.1,23	10,11	8,13		8,9.3
		14,17				8,11
6EEK9N	PowerPlex® Fusion 6C					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12
		14,20	13,14	29,30	16,18	X,X
		16.1,23	10,11	8,13	28.2,28.2	8,9.3
		14,17				8,11
6MQGB9	GlobalFiler™ (STRmix)					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12
		14,20	13,14	29,30	16,18	X,X
		16.1,23			28.2	8,9.3
		14,17				8,11
6PXV2N	GlobalFiler™					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12
		14,20	13,14	29,30	16,18	X
		16.1,23			28.2	8,9.3
		14,17				8,11
6UTLAK	Investigator® 24plex GO!					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12
		14,20	13,14	29,30	16,18	X
		16.1,23			28.2	8,9.3
		14,17				8,11
7FPPH6	PowerPlex® Fusion 5C					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12
		14,20	13,14	29,30	16,18	X
		16.1,23	10,11	8,13		8,9.3
		14,17				8,11

TABLE 1

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

7HDW4M	GlobalFiler™ Express					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12
		14,20	13,14	29,30	16,18	X
		16.1,23	NT	NT	28.2	8,9.3
		14,17	NR	NT	NT	NR
7HXU2L	PowerPlex® Fusion					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12
		14,20	13,14	29,30	16,18	X
		16.1,23	10,11	8,13		8,9.3
		14,17				
7LF2G9	GlobalFiler™					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12
		14,20	13,14	29,30	16,18	X,X
		16.1,23			28.2	8,9.3
		14,17				
7Y33FM	GlobalFiler™					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12
		14,20	13,14	29,30	16,18	X,X
		16.1,23			28.2,28.2	8,9.3
		14,17	-			-
7ZP9CY	GlobalFiler™					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12
		14,20	13,14	29,30	16,18	X,X
		16.1,23			28.2,28.2	8,9.3
		14,17				
84JP2X	GlobalFiler™					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12
		14,20	13,14	29,30	16,18	X,X
		16.1,23	NA	NA	28.2,28.2	8,9.3
		14,17	NA	NA	NA	NA
89LZHD	Identifiler®					
			21,25		16,16	9,11
1		11,11	14,15			12,12
		14,20	13,14	29,30		X,X
		R(16.1),23				8,9.3
		14,17				



TABLE 1

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

8GF6BE	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17	NM			NM	
8RBJ84	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
8RD7NH	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17	NR			NR	
8X2N9L	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
94L9MK	GlobalFiler™ Express					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17	No Results			No Results	
993GBK	PowerPlex® Fusion					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17	NR				
99YUU7	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					

TABLE 1

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

9H343G	GlobalFiler™					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12 10,11
		14,20	13,14	29,30	16,18	X,X 10,12
		16.1,23			28.2,28.2	8,9.3 8,11
		14,17	NR			NR
9KAL2D	GlobalFiler™					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12 10,11
		14,20	13,14	29,30	16,18	X,X 10,12
		16.1,23			28.2,28.2	8,9.3 8,11
		14,17				
9LPQV6	GlobalFiler™					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12 10,11
		14,20	13,14	29,30	16,18	X,X 10,12
		16.1,23			28.2,28.2	8,9.3 8,11
		14,17	NR			NR
A2XWNF	PowerPlex® Fusion 6C (mRMP by Familias3)					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12 10,11
		14,20	13,14	29,30	16,18	X,X 10,12
		16.1,23	10,11	8,13	28.2,28.2	8,9.3 8,11
		14,17				
A394L2	PowerPlex® Fusion					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12 10,11
		14,20	13,14	29,30	16,18	X 10,12
		16.1,23	10,11	8,13		8,9.3 8,11
		14,17				
A6ENA2	GlobalFiler™					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12 10,11
		14,20	13,14	29,30	16,18	X,X 10,12
		16.1,23			28.2	8,9.3 8,11
		14,17				
A6WB9J	GlobalFiler™ Express					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12 10,11
		14,20	13,14	29,30	16,18	X 10,12
		16.1,23			28.2	8,9.3 8,11
		14,17	No Results			No Results

TABLE 1

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

ACYJFC	PowerPlex® Fusion 6C (STRmix)					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13	28.2	8,9.3	8,11
	14,17					
AJFZ72	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17	NR			NR	
B7PJXE	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
BCP3UH	GlobalFiler™ Express					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17	NR			NR	
BDQXJF	PowerPlex® Fusion 5C					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					
BN2AT4	GlobalFiler™ (STRmix)					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
BV6EM9	PowerPlex® Fusion 6C					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13	28.2	8,9.3	8,11
	14,17					

TABLE 1

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

BZ2YTD	Identifiler® Plus					
		21,25		16,16	9,11	
1		11,11	14,15		12,12	10,11
		14,20	13,14	29,30	X,X	10,12
		16.1,23			8,9.3	8,11
		14,17				
C4RWC2	GlobalFiler™ (STRmix)					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12
		14,20	13,14	29,30	16,18	X,X
		16.1,23		28.2,28.2	8,9.3	8,11
		14,17				
CAH7LZ	GlobalFiler™					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12
		14,20	13,14	29,30	16,18	X,X
		16.1,23		28.2	8,9.3	8,11
		14,17				
CK64VD	GlobalFiler™					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12
		14,20	13,14	29,30	16,18	X
		16.1,23		28.2	8,9.3	8,11
		14,17				
CKJP6F	PowerPlex® Fusion 5C					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12
		14,20	13,14	29,30	16,18	X
		16.1,23	10,11	8,13	8,9.3	8,11
		14,17				
CVH69Y	GlobalFiler™					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12
		14,20	13,14	29,30	16,18	X,X
		16.1,23		28.2,28.2	8,9.3	8,11
		14,17	NR		NR	
D3GAF9	NGM SElect					
		15,16	21,25	11,11	16,16	
1			14,15	13,16	17,20	10,11
		14,20	13,14	29,30	16,18	X,X
		16.1,23		28.2,28.2	8,9.3	
		14,17				

TABLE 1

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

DFFMQT	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
DFLBBX	GlobalFiler™					
	15,16	21,25	11	16	9,11	
	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
DWP6HX	PowerPlex® Fusion					
	15,16	21,25	11	16	9,11	
	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					
DZMKNW	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17	NR		NR		
E784QE	GlobalFiler™ Express					
	15,16	21,25	11	16	9,11	
	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17	No results		No results		
EBKNWZ	GlobalFiler™ (STRmix)					
	15,16	21,25	11	16	9,11	
	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
EEPCEB	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17	NR		NR		

TABLE 1

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

EGT8XE	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
EL7T6Z	PowerPlex® Fusion 5C					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					
EPLFH6	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17	0			0	
EQEB6D	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
ETLQE6	Identifiler®					
		21,25		16,16	9,11	
1	11,11	14,15			12,12	10,11
	14,20	13,14	29,30		X,X	10,12
	R(16.1),23				8,9.3	8,11
	14,17					
EUV8NQ	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
EXHDAE	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					

TABLE 1

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

FV9RVD	GlobalFiler™ Express					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17	No Result			No Result	
G2PMB8	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
GCV696	Identifiler® Plus					
		21,25		16	9,11	
1	11	14,15			12	10,11
	14,20	13,14	29,30		X,X	10,12
	16.1,23				8,9.3	8,11
	14,17					
GG7HQ4	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
GRJK9V	PowerPlex® Fusion					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					
GTKFV8	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
H2AGRB	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					

TABLE 1

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

HC7MKA	PowerPlex® Fusion					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					
HVHG9A	PowerPlex® Fusion					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17	NR				
J66UR7	GlobalFiler™ (STRmix)					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
J9KADQ	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17	NR			NR	
JAEV93	PowerPlex® Fusion 6c (GeneMapper ID-X 1.4)					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23	10,11	8,13	28.2,28.2	8,9.3	8,11
	14,17					
JF4DKT	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
JH86ER	PowerPlex® ESI FAST					
	15,16	21,25	11,11	16,16		
1		14,15	13,16	17,20		10,11
	14,20	13,14	29,30	16,18	X,X	
	16.1,23				8,9.3	
	14,17					



TABLE 1

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

K8P2P8	GlobalFiler™					
	15,16	21,25	11	16	9,11	
	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
KCJ3P2	Identifiler® Plus					
		21,25		16	9,11	
	11	14,15			12	10,11
	14,20	13,14	29,30		X,X	10,12
	16.1,23				8,9.3	8,11
	14,17					
KP4HRZ	PowerPlex® 5C (BulletProof)					
	15,16	21,25	11,11	16,16	9,11	
	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					
LCWTBQ	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17	NR		NR		
LFYP37	PowerPlex® Fusion					
	15,16	21,25	11	16	9,11	
	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					
M3NJMX	PowerPlex® Fusion 6C					
	15,16	21,25	11	16	9,11	
	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13	28.2	8,9.3	8,11
	14,17					
M6MHDB	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	N/A
	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23	N/A	N/A	28.2,28.2	8,9.3	8,11
	14,17	N/A	N/A	N/A	N/A	

TABLE 1

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

MEHTB7	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
MFCJEZ	PowerPlex® Fusion 6C					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23	10,11	8,13	28.2,28.2	8,9.3	8,11
	14,17	0,0	0,0	0,0		
MP34KX	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
MPE2P3	GlobalFiler™ Express					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
MV3NHM	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17	NR			NR	
MV7BY2	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
N2J8VG	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					

TABLE 1

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

PAU3VL	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
PH4UXP	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
PMLMH4	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
PRWZZ3	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
Q9ZU73	PowerPlex® Fusion					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17	---				
QCLHNU	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
QE4G2	PowerPlex® Fusion					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					

TABLE 1

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

QJLXE3	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
QPKPEJ	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17	NR			NR	
QQEBAV	PowerPlex® Fusion, Applied Biosystems Verifiler Plus (SoftGenetics Genemarker HID 2.9.5)					
	15,16	21,25	11	16	9,11	11,12
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					
QT82L2	PowerPlex® Fusion					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					
QW7DG2	PowerPlex® Fusion 5C					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					
RDM6CJ	PowerPlex® Fusion 5C					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					
RK92DM	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17	NR			NR	

TABLE 1

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

RL6ATX	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
RN9CAM	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
T2BVTY	PowerPlex® Fusion					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					
T2MW8L	GlobalFiler™ (STRmix)					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
T7K9BX	PowerPlex® Fusion					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					
T7KDLZ	GlobalFiler™ Express					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17	NR			NR	
TMT8FV	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					

TABLE 1

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

TPWYNV	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
U33FQH	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17	NR			NR	
U4W2LV	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
U74JKQ	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
UA4NEX	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
ULE64F	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17	NR			NR	
UTFH3Y	GlobalFiler™					
	15,16	21,25	11	16	9,11	-
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23	-	-	28.2	8,9.3	8,11
	14,17	NM	-	-	NM	

TABLE 1

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

UU94ZV	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
UVHFDQ	Identifiler® Plus					
		21,25		16	9,11	
1	11	14,15			12	10,11
	14,20	13,14	29,30		X,X	10,12
	16.1,23				8,9.3	8,11
	14,17					
UWDKC	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
UWACZZ	GlobalFiler™ Express					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17	not applicable			not applicable	
UXA8PX	PowerPlex® Fusion					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					
VBC66G	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
VED9XP	PowerPlex® Fusion 5C					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					

TABLE 1

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

VMHFDP	GlobalFiler™					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12 10,11
		14,20	13,14	29,30	16,18	X,X 10,12
		16.1,23			28.2,28.2	8,9.3 8,11
		14,17	ND			ND
VU2JKR	Investigator® 24plex					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12 10,11
		14,20	13,14	29,30	16,18	X,X 10,12
		16.1,23			28.2,28.2	8,9.3 8,11
		14,17				
VW9XRX	PowerPlex® Fusion 6C					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12 10,11
		14,20	13,14	29,30	16,18	X,X 10,12
		16.1,23	10,11	8,13	28.2,28.2	8,9.3 8,11
		14,17				
VWPVKW	PowerPlex® Fusion					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12 10,11
		14,20	13,14	29,30	16,18	X 10,12
		16.1,23	10,11	8,13		8,9.3 8,11
		14,17	NR			
VXM83J	GlobalFiler™					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12 10,11
		14,20	13,14	29,30	16,18	X,X 10,12
		16.1,23			28.2	8,9.3 8,11
		14,17				
W2WZBM	GlobalFiler™					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12 10,11
		14,20	13,14	29,30	16,18	X,X 10,12
		16.1,23			28.2,28.2	8,9.3 8,11
		14,17				
W4Y8TA	GlobalFiler™					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12 10,11
		14,20	13,14	29,30	16,18	X,X 10,12
		16.1,23			28.2,28.2	8,9.3 8,11
		14,17				



TABLE 1

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

WE97QW	GlobalFiler™					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12
		14,20	13,14	29,30	16,18	X
		16.1,23			28.2	8,9.3
		14,17				8,11
WGADNE	PowerPlex® Fusion					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12
		14,20	13,14	29,30	16,18	X
		16.1,23	10,11	8,13		8,9.3
		14,17				8,11
WKAMWV	GlobalFiler™					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12
		14,20	13,14	29,30	16,18	X,X
		16.1,23			28.2	8,9.3
		14,17	NM			NM
WM39UT	PowerPlex® Fusion 6C					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12
		14,20	13,14	29,30	16,18	X,X
		16.1,23	10,11	8,13	28.2,28.2	8,9.3
		14,17	ND	ND	ND	8,11
WQKFAF	PowerPlex® Fusion 5C					
		15,16	21,25	11	16	9,11
1		11	14,15	13,16	17,20	12
		14,20	13,14	29,30	16,18	X
		16.1,23	10,11	8,13		8,9.3
		14,17				8,11
WQVHVE	PowerPlex® Fusion 5C					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12
		14,20	13,14	29,30	16,18	X,X
		16.1,23	10,11	8,13		8,9.3
		14,17	-	-	-	-
WVVTRE	PowerPlex® Fusion 5C					
		15,16	21,25	11,11	16,16	9,11
1		11,11	14,15	13,16	17,20	12,12
		14,20	13,14	29,30	16,18	X,X
		16.1,23	10,11	8,13		8,9.3
		14,17				8,11

TABLE 1

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

X6CRYV	PowerPlex® Fusion 5C					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					
XAPD7G	PowerPlex®					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					
XCYKBU	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17	NM			NM	
XG6E6Q	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
XMT2ZV	GlobalFiler™ Express					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17	NR			NR	
XNTWPT	PowerPlex® Fusion 5C					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					
Y3NFZP	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					

TABLE 1

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

YBX84T	PowerPlex® Fusion					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17	NR				
YEUVHE	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
YEWHTY	PowerPlex® Fusion 5C					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17	NR				
YG2A8T	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
YKNT9Q	PowerPlex® Fusion 6C					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23	10,11	8,13	28.2,28.2	8,9.3	8,11
	14,17					
YN4ZWQ	PowerPlex® 5C					
	15,16	21,25	11	16	9,11	--
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13	--	8,9.3	8,11
	14,17	--	--	--	--	
YTHTRP	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					

TABLE 1

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

YV4KVE	PowerPlex® Fusion 5C					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					
YWUCM7	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
YXVJ9D	GlobalFiler™					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
Z8TYCM	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
ZC97ZM	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17	neg.			neg.	
ZP98CN	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
1	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
ZYKZ8R	PowerPlex® Fusion 5C					
	15,16	21,25	11	16	9,11	
1	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17					

TABLE 1

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

23GBBQ	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
24BW9N	GlobalFiler™ (STRmix)					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
28R4NB	PowerPlex® Fusion					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
2EUB8K	Investigator® 24plex (STRMix)					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10				
2J22BQ	PowerPlex® Fusion					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
2UJLUM	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
2X8WUR	GlobalFiler™ (STRmix v2.6.3)					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

3BME2L	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	2	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
3L9J9L	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	2	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
3RDK6A	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
	2	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
3WPHJN	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
	2	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
4DPR3K	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	2	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10,0			2,0	
4GZBX2	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	2	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
4UD3PM	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
	2	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				

TABLE 1

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

66EQGJ	PowerPlex® 21 (STRmix 2.7)					
	15,3,16	25,26		15,15	11,11	11,14
2	9,11	10,12		15,17	10,11	10,12
	17,22	14,15	29,29		X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17					
6EEK9N	PowerPlex® Fusion 6C					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	17		
6MQGB9	GlobalFiler™ (STRmix)					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
6PXV2N	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
6UTLAK	Investigator® 24plex GO!					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10				
7FPPH6	PowerPlex® Fusion 5C					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
7HDW4M	GlobalFiler™ Express					
	15,3,16	25,26	10,15	15	11	NT
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	NT	NT	15,27.2	6,8	9,11
	16,17	10	NT	NT	2	

TABLE 1

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

7HXU2L	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
7LF2G9	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
7Y33FM	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
7ZP9CY	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
84JP2X	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	NA
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	NA	NA	15,27.2	6,8	9,11
	16,17	10	NA	NA	2	
89LZHD	Identifiler®					
		25,26		15,15	11,11	
2	9,11	10,12			10,11	10,12
	17,22	14,15	29,29		X,Y	10,11
	18,21				6,8	9,11
	16,17					
8GF6BE	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	



TABLE 1

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

8RBJ84	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
8RD7NH	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
8X2N9L	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
94L9MK	GlobalFiler™ Express					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
993GBK	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
99YUU7	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
9H343G	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

9KAL2D	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	2	9,11	10,12	13,14	15,17	10,11
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
9LPQV6	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	2	9,11	10,12	13,14	15,17	10,11
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
A2XWNF	PowerPlex® Fusion 6C (mRMP by Familias3)					
	15.3,16	25,26	10,15	15,15	11,11	
	2	9,11	10,12	13,14	15,17	10,11
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	17		
A394L2	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
	2	9,11	10,12	13,14	15,17	10,11
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
A6ENA2	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
	2	9,11	10,12	13,14	15,17	10,11
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
A6WB9J	GlobalFiler™ Express					
	15.3,16	25,26	10,15	15	11	
	2	9,11	10,12	13,14	15,17	10,11
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
ACYJFC	PowerPlex® Fusion 6C (STRmix)					
	15.3,16	25,26	10,15	15	11	
	2	9,11	10,12	13,14	15,17	10,11
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	17		

TABLE 1

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

AJFZ72	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
B7PJXE	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
BCP3UH	GlobalFiler™ Express					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
BDQXJF	PowerPlex® Fusion 5C					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
BN2AT4	GlobalFiler™ (STRmix)					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
BV6EM9	PowerPlex® Fusion 6C					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	17		
BZ2YTD	Identifiler® Plus					
		25,26		15,15	11,11	
	9,11	10,12			10,11	10,12
	17,22	14,15	29,29		X,Y	10,11
	18,21				6,8	9,11
	16,17					

TABLE 1

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

C4RWC2	GlobalFiler™ (STRmix)					
	15.3,16	25,26	10,15	15,15	11,11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
CAH7LZ	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
CK64VD	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
CKJP6F	PowerPlex® Fusion 5C					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
CVH69Y	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
D3GAF9	NGM SElect					
	15.3,16	25,26	10,15	15,15		
	9,11	10,12	13,14	15,17		10,12
	17,22	14,15	29,29	15,17	X,Y	
	18,21			15,27.2	6,8	
	16,17					
DFFMQT	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	8,11
	16,17	10			2	

TABLE 1

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

DFLBBX	GlobalFiler™					
		15.3,16	25,26	10,15	15	11
	2	9,11	10,12	13,14	15,17	10,11 10,12
		17,22	14,15	29	15,17	X,Y 10,11
		18,21			15,27.2	6,8 9,11
	16,17	10			2	
DWP6HX	PowerPlex® Fusion					
		15.3,16	25,26	10,15	15	11
	2	9,11	10,12	13,14	15,17	10,11 10,12
		17,22	14,15	29	15,17	X,Y 10,11
		18,21	10,15	10,16		6,8 9,11
	16,17	10				
DZMKNW	GlobalFiler™					
		15.3,16	25,26	10,15	15,15	11,11
	2	9,11	10,12	13,14	15,17	10,11 10,12
		17,22	14,15	29,29	15,17	X,Y 10,11
		18,21			15,27.2	6,8 9,11
	16,17	10			2	
E784QE	GlobalFiler™ Express					
		15.3,16	25,26	10,15	15	11
	2	9,11	10,12	13,14	15,17	10,11 10,12
		17,22	14,15	29	15,17	X,Y 10,11
		18,21			15,27.2	6,8 9,11
	16,17	10			2	
EBKNWZ	GlobalFiler™ (STRmix)					
		15.3,16	25,26	10,15	15	11
	2	9,11	10,12	13,14	15,17	10,11 10,12
		17,22	14,15	29	15,17	X,Y 10,11
		18,21			15,27.2	6,8 9,11
	16,17	10			2	
EEPCEB	GlobalFiler™					
		15.3,16	25,26	10,15	15,15	11,11
	2	9,11	10,12	13,14	15,17	10,11 10,12
		17,22	14,15	29,29	15,17	X,Y 10,11
		18,21			15,27.2	6,8 9,11
	16,17	10			2	
EGT8XE	GlobalFiler™					
		15.3,16	25,26	10,15	15	11
	2	9,11	10,12	13,14	15,17	10,11 10,12
		17,22	14,15	29	15,17	X,Y 10,11
		18,21			15,27.2	6,8 9,11
	16,17	10			2	

TABLE 1

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

EL7T6Z	PowerPlex® Fusion 5C					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
EPLFH6	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
EQEB6D	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
ETLQE6	Identifiler®					
		25,26		15,15	11,11	
2	9,11	10,12			10,11	10,12
	17,22	14,15	29,29		X,Y	10,11
	18,21				6,8	9,11
	16,17					
EUV8NQ	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
EXHDAE	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
FV9RVD	GlobalFiler™ Express					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

G2PMB8	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
GCV696	Identifiler® Plus					
		25,26		15	11	
2	9,11	10,12			10,11	10,12
	17,22	14,15	29		X,Y	10,11
	18,21				6,8	9,11
	16,17					
GG7HQ4	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
GRJK9V	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
GTKFV8	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
H2AGRB	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
HC7MKA	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				

TABLE 1

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

HVHG9A	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
J66UR7	GlobalFiler™ (STRmix)					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10		2		
J9KADQ	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10		2		
JAEV93	PowerPlex® Fusion 6C (GeneMapper ID-X 1.4)					
	15.3,16	25,26	10,15	15,15	11,11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	17		
JF4DKT	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10		2		
JH86ER	PowerPlex® ESI FAST					
	15.3,16	25,26	10,15	15,15		
		10,12	13,14	15,17		10,12
	17,22	14,15	29,29	15,17	X,Y	
	18,21				6,8	
	16,17					
K8P2P8	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10		2		



TABLE 1

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

KCJ3P2	Identifiler® Plus					
		25,26		15	11	
2		9,11	10,12		10,11	10,12
		17,22	14,15	29	X,Y	10,11
		18,21			6,8	9,11
		16,17				
KP4HRZ	PowerPlex® 5C (BulletProof)					
		15.3,16	25,26	10,15	15,15	11,11
2		9,11	10,12	13,14	15,17	10,11
		17,22	14,15	29,29	15,17	X,Y
		18,21	10,15	10,16		6,8
		16,17	10			9,11
LCWTBQ	GlobalFiler™					
		15.3,16	25,26	10,15	15,15	11,11
2		9,11	10,12	13,14	15,17	10,11
		17,22	14,15	29,29	15,17	X,Y
		18,21			15,27.2	6,8
		16,17	10			9,11
					2	
LFYP37	PowerPlex® Fusion					
		15.3,16	25,26	10,15	15	11
2		9,11	10,12	13,14	15,17	10,11
		17,22	14,15	29	15,17	X,Y
		18,21	10,15	10,16		6,8
		16,17	10			9,11
M3NJMX	PowerPlex® Fusion 6C					
		15.3,16	25,26	10,15	15	11
2		9,11	10,12	13,14	15,17	10,11
		17,22	14,15	29	15,17	X,Y
		18,21	10,15	10,16	15,27.2	6,8
		16,17	10	18	17	9,11
M6MHDB	GlobalFiler™					
		15.3,16	25,26	10,15	15,15	11,11
2		9,11	10,12	13,14	15,17	10,11
		17,22	14,15	29,29	15,17	X,Y
		18,21	N/A	N/A	15,27.2	6,8
		16,17	10	N/A	N/A	9,11
					2	
MEHTB7	GlobalFiler™					
		15.3,16	25,26	10,15	15,15	11,11
2		9,11	10,12	13,14	15,17	10,11
		17,22	14,15	29,29	15,17	X,Y
		18,21			15,27.2	6,8
		16,17	10			9,11
					2	

TABLE 1

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

MFCJEZ	PowerPlex® Fusion 6C					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	17		
MP34KX	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
MPE2P3	GlobalFiler™ Express					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
MV3NHM	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
MV7BY2	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
N2J8VG	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
PAU3VL	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

PH4UXP	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
PMLMH4	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
PRWZZ3	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
Q9ZU73	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
QCLHNU	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
QE4G2	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
QJLXE3	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

QPKPEJ	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
QQEBAV	PowerPlex® Fusion, Applied Biosystems Verifiler Plus (SoftGenetics Genemarker HID 2.9.5)					
	15,3,16	25,26	10,15	15	11	11,14
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10			2	
QT82L2	PowerPlex® Fusion					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
QW7DG2	PowerPlex® Fusion 5C					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
RDM6CJ	PowerPlex® Fusion 5C					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
RK92DM	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	[6],8	9,11
	16,17	10			2	
RL6ATX	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

RN9CAM	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
T2BVTY	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
T2MW8L	GlobalFiler™ (STRmix)					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
T7K9BX	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
T7KDLZ	GlobalFiler™ Express					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
TMT8FV	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
TPWYNV	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

U33FQH	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
U4W2LV	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
U74JKQ	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
UA4NEX	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
ULE64F	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
UTFH3Y	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	-
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	-	-	15,27.2	6,8	9,11
	16,17	10	-	-	2	
UU94ZV	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

UVHFDQ	Identifiler® Plus					
		25,26		15	11	
2		9,11	10,12		10,11	10,12
		17,22	14,15	29	X,Y	10,11
		18,21			6,8	9,11
		16,17				
UVWDC	GlobalFiler™					
		15.3,16	25,26	10,15	15,15	11,11
2		9,11	10,12	13,14	15,17	10,11
		17,22	14,15	29,29	15,17	X,Y
		18,21			15,27.2	6,8
		16,17	10		2	9,11
UWACZZ	GlobalFiler™ Express					
		15.3,16	25,26	10,15	15	11
2		9,11	10,12	13,14	15,17	10,11
		17,22	14,15	29	15,17	X,Y
		18,21			15,27.2	6,8
		16,17	10		2	9,11
UXA8PX	PowerPlex® Fusion					
		15.3,16	25,26	10,15	15	11
2		9,11	10,12	13,14	15,17	10,11
		17,22	14,15	29	15,17	X,Y
		18,21	10,15	10,16		6,8
		16,17	10			9,11
VBC66G	GlobalFiler™					
		15.3,16	25,26	10,15	15	11
2		9,11	10,12	13,14	15,17	10,11
		17,22	14,15	29	15,17	X,Y
		18,21			15,27.2	6,8
		16,17	10		2	9,11
VED9XP	PowerPlex® Fusion 5C					
		15.3,16	25,26	10,15	15	11
2		9,11	10,12	13,14	15,17	10,11
		17,22	14,15	29	15,17	X,Y
		18,21	10,15	10,16		6,8
		16,17	10			9,11
VMHFDP	GlobalFiler™					
		15.3,16	25,26	10,15	15,15	11,11
2		9,11	10,12	13,14	15,17	10,11
		17,22	14,15	29,29	15,17	X,Y
		18,21			15,27.2	6,8
		16,17	10		2	9,11

TABLE 1

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

VU2JKR	Investigator® 24plex					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10				
VW9XRX	PowerPlex® Fusion 6C					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	17		
VWPVKW	PowerPlex® Fusion					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
VXM83J	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
W2WZBM	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
W4Y8TA	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
WE97QW	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	



TABLE 1

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

WGADNE	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
WKAMWW	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
WM39UT	PowerPlex® Fusion 6C					
	15.3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	17		
WQKFAF	PowerPlex® Fusion 5C					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
WQVHVE	PowerPlex® Fusion 5C					
	15.3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10	-	-	-	
WVVTRE	PowerPlex® Fusion 5C					
	15.3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
X6CRYV	PowerPlex® Fusion 5C					
	15.3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				

TABLE 1

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

XAPD7G	PowerPlex®					
	15.3,16	25,26	10,15	15,15	11,11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
XCYKBU	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10		2		
XG6E6Q	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10		2		
XMT2ZV	GlobalFiler™ Express					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10		2		
XNTWPT	PowerPlex® Fusion 5C					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
Y3NFZP	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10		2		
YBX84T	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				

TABLE 1

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

YEUVHE	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
YEWHYT	PowerPlex® Fusion 5C					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
YG2A8T	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
YKNT9Q	PowerPlex® Fusion 6C					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	17		
YN4ZWQ	PowerPlex® 5C					
	15,3,16	25,26	10,15	15	11	--
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16	--	6,8	9,11
	16,17	10	--	--	--	
YTHTRP	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
YV4KVE	PowerPlex® Fusion 5C					
	15,3,16	25,26	10,15	15,15	11,11	
2	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				

TABLE 1

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

YWUCM7	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
YXVJ9D	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
Z8TYCM	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
ZC97ZM	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
ZP98CN	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
ZYKZ8R	PowerPlex® Fusion 5C					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				

TABLE 1

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

6EEK9N	PowerPlex® Fusion 6C						
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11		
	3	8,9,11	12,14,15	13,15,16	17,18,20	12,13	
		14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
		16.1,20,23,24	9,10,11,13	8,10,11,13	18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11	18	18			
A2XWNF	PowerPlex® Fusion 6C (LRMix Studio)						
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11		
	3	8,9,11	12,14,15	13,15,16	17,18,20	12,13	
		14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
		16.1,20,23,24	9,10,11,13	8,10,11,13	18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11	18	18			
JH86ER	PowerPlex® ESI FAST						
	15,16,(17.3)	20,21,23,25	10,11,11.3	15,16			
	3	12,14,15	13,15,16	17,18,20		10,11,12,13	
		14,17,20	13,14	29,30	11,15,16,18	X,Y	
		16.1,20,23,24				6,8,9.3	
	14,17,19						
QCLHNU	GlobalFiler™						
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11		
	3	8,9,11	12,14,15	13,15,16	17,18,20	12,13	
		14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
		16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11			2		
QQEBAV	PowerPlex® Fusion, Applied Biosystems Verifiler Plus (SoftGenetics Genemarker HID 2.9.5)						
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	11,12,13,17	
	3	8,9,11	12,14,15	13,15,16	17,18,20	12,13	
		14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
		16.1,20,23,24	9,10,11,13	8,10,11,13		6,8,9.3	8,11,12
	14,17,19	11			2		
VW9XRX	PowerPlex® Fusion 6C						
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11		
	3	8,9,11	12,14,15	13,15,16	17,18,20	12,13	
		14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
		16.1,20,23,24	9,10,11,13	8,10,11,13	18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11	18	18			
YKNT9Q	PowerPlex® Fusion 6C						
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11		
	3	8,9,11	12,14,15	13,15,16	17,18,20	12,13	
		14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
		16.1,20,23,24	9,10,11,13	8,10,11,13	18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11	18	18			

TABLE 1

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

Item 3 - STR Results

ZC97ZM	GlobalFiler™					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11			2	

TABLE 1

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

23GBBQ	GlobalFiler™					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12
	14,17,20	13,14	29,30	11,16,18	X,Y	10,12
	16.1,20,23,24			25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11			2	
24BW9N	GlobalFiler™ (STRmix)					
	14,15,16,17.3,Q	20,21,24,25,Q	10,11,Q	15,16,Q	8,9,10,11,Q	
3e	8,9,10,11,Q	12,13,14,15,Q	12,13,15,16,Q	16,17,18,19,20,Q	11,12,13,Q	9,10,11,12,Q
	13,14,17,19,20,Q	12,13,14,Q	28,29,30,Q	11,15,16,17,18,19,Q	X,Y	9,10,11,12,Q
	16.1,22,23,Q			18,25.2,27.2,28.2,Q	6,8,9.3,Q	8,10,11,12,Q
	13,14,16,17,Q	11			2	
28R4NB	PowerPlex® Fusion					
	15,16	21,25	11	15,16	9,11	
3e	11	14,15	13,15,16	17,20	12	10,11,13
	14,17,20	13,14	29,30	16,18	X,Y	10,12
	16.1,23,24	9,10,11	8,13		8,9.3	8,11
	14,17					
2EUB8K	Investigator® 24plex (STRMix)					
	15,16,[17.3]	21,[23],25	11,[11.3]	16,16	9,11	
3e	[8,9],11	[12],14,15	13,16	17,[18],20	12,[13]	10,11,[12,13]
	14,[17],20	13,14	29,30	[11],16,18	X,[Y]	10,12
	16.1,[20],23,[24]			[18,25.2],28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	[11]				
2J22BQ	PowerPlex® Fusion					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,16,18	X,Y	10,12
	16.1,20,23,24	9,10,11,13	8,10,11,13		6,8,9.3	8,11,12
	14,17,19	11				
2UJLUM	GlobalFiler™					
	15,16	[20],21,25	[10],11,[11.3]	[15],16	9,11	
3e	[8],[9],11	[12],14,15	13,[15],16	17,20	12	10,11
	14,[17],20	13,14	29,30	[15],16,18	X,[Y]	10,12
	16.1,[20],23			28.2	[6],8,9.3	8,11
	14,17,[19]	11			2	
2X8WUR	GlobalFiler™					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11			2	

TABLE 1

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

3BME2L	GlobalFiler™					
	15,16	21,25	11	16	9,11	
3e	11	14,15	13,[15],16	17,20	12	10,11
	14,[17],20	13,14	29,30	[15],16,18	X	10,12
	16.1,23			28.2	[6],8,9.3	8,11
	14,17				2	
3L9J9L	GlobalFiler™					
	15,16,[17.3]	21,25	[10],11	[15],16	9,11	
3e	11	[12],14,15	13,[15],16	17,20	12	10,11
	14,[17],20	13,14	29,30	16,18	X,[Y]	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17				2	
3RDK6A	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,[11.3]	[15],16	9,11	
3e	[8],[9],11	[12],14,15	13,[15],16	17,[18],20	12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],[15],16,18	X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	11			2	
3WPHJN	PowerPlex® Fusion					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24	9,10,11,13	8,10,11,13		6,8,9.3	8,11,12
	14,17,19	11				
4DPR3K	GlobalFiler™ (For epithelial fraction: STRmix v2.7 Deconvolution, conditioned on female victim reference profile)					
	15,16	[20],21,[23],25	[10],11,11	[15],16,16	9,11	
3e	11,11	[12],14,15	13,16	17,20	[12],12,12	10,11
	14,[17],20	13,14	29,30	[11],[15],16,18	X,X,[Y]	10,12
	16.1,[20],23			[18],[25.2],28.2,28.2	[6],8,9.3	8,11
	14,17	[11]		2	[2]	
4GZBX2	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	11,11,[11.3]	16,16	9,11	
3e	[8],[9],11,11	[12],14,15	13,[15],16	17,[18],20	12,12	10,11,[12]
	14,[17],20	13,14	29,30	[11],16,18	X,X,[Y]	10,12
	16.1,23,[24]			[18],28.2,28.2	8,9.3	8,11
	14,17				[2]	
4UD3PM	PowerPlex® Fusion					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24	9,10,11,13	8,10,11,13		6,8,9.3	8,11,12
	14,17,19	11				



TABLE 1

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

66EQGJ	PowerPlex® 21 (STRmix 2.7)					
	15,16,[17.3]	21,[23],25		[15],16,16	9,11	11,12 [17]
3e	11,11	[12],14,15		17,20	12,12	10,11,[13]
	14,[17],20	13,14	29,30		X,X,[Y]	10,12
	16.1,23	[9],10,11	8,13		[6],8,9.3	8,11
	14,17					
6MQGB9	GlobalFiler™ (STRmix)					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23			18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11			2	
6PXV2N	GlobalFiler™					
	15,16,17.3	20,21,23,25	11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17	11			2	
6UTLAK	Investigator® 24plex QS					
	15,16,[17.3]	20,21,[23],25	11,11.3	16	9,11	
3e	11	12,14,15	13,15,16	17,[18],20	12	10,11,12,13
	14,17,20	13,14	29,30	[11],16,18	X,[Y]	10,12
	16.1,23,[24]			18,[25.2],28.2	6,8,9.3	8,11,[12]
	14,17,[19]	[11]				
7FPPH6	PowerPlex® Fusion 5C					
	15,16,17.3	20,21,23,25	11	16	9,11	
3e	11	12,14,15	13,16	17,18,20	12	10,11,12,13
	14,17,20	13,14	29,30	11,16,18	X,Y	10,12
	16.1,20,23,24	9,10,11,13	8,10,11,13		8,9.3	8,11,12
	14,17,19	11				
7HDW4M	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,[11.3]	[15],16	9,11	NT
3e	[8,9],11	[12],14,15	13,[15],16	17,[18],20	12	10,11,[12,13]
	14,[17],20	13,14	29,30	[11],16,18	X,[Y]	10,12
	16.1,[20],23	NT	NT	[18,25.2],28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	[11]	NT	NT	[2]	
7HXU2L	PowerPlex® Fusion					
	15,16,17.3	20,21,23,25	11,11.3	16	9,11	
3e	8,11	12,14,15	13,16	17,18,20	12	10,11,12,13
	14,17,20	13,14	29,30	11,16,18	X	10,12
	16.1,20,23	10,11,13	8,10,11,13		6,8,9.3	8,11,12
	14,17,19	11				

TABLE 1

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

7LF2G9	GlobalFiler™ (STRmix)					
		15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11
	3e	8,9,11	12,14,15	13,15,16	17,18,20	12
		14,17,20	13,14	29,30	11,15,16,18	X,Y
		16.1,20,23,24			18,25.2,28.2	6,8,9.3
	14,17,19	11			2	
7Y33FM	GlobalFiler™					
		15,16	[20],21,[23],25	[10],11	[15],16	9,11
	3e	[9],11	[12],14,15	13,[15],16	17,[18],20	12,[13]
		14,20	13,14	29,30	[15],16,18	X,[Y]
		16.1,23,[24]			[18,25.2],28.2	[6],8,9.3
	14,17,[19]	[11]			[2]	
7ZP9CY	GlobalFiler™					
		15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11
	3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13
		14,17,20	13,14	29,30	11,15,16,18	X,Y
		16.1,20,23,24			18,25.2,28.2	6,8,9.3
	14,17,19	11			2	
84JP2X	GlobalFiler™					
		15,16,[17.3]	[20],21,[23],25	11,11,[11.3]	16,16	9,11
	3e	[8],[9],11,11	[12],14,15	13,[15],16	17,20	12,12
		14,[17],20	13,14	29,30	[11],16,18	X,X,[Y]
		16.1,23,[24]	NA	NA	[18],28.2,28.2	8,9.3
	14,17	NA	NA	NA	[2]	
89LZHD	Identifiler®					
			21,25		16,16	9,11
	3e	11,11	14,15			12,12
		14,20	13,14	29,30		X,X
		R(16.1),23				8,9.3
	14,17				8,11	
8GF6BE	GlobalFiler™					
		15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11
	3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13
		14,17,20	13,14	29,30	11,15,16,18	X,Y
		16.1,20,23,24			18,25.2,28.2	6,8,9.3
	14,17,19	11			2	
8RBJ84	GlobalFiler™					
		15,16,[17.3]	20,21,[23],25	11,[11.3]	16	9,11
	3e	[8,9],11	14,15	13,[15],16	17,[18],20	12,[13]
		14,[17],20	13,14	29,30	[11,15],16,18	X,[Y]
		16.1,[20],23			[18,25.2],28.2	[6],8,9.3
	14,17	11			2	

TABLE 1

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

8RD7NH	GlobalFiler™					
	15,16	21,[23],25	[10],11,[11.3]	[15],16	9,11	
3e	[8],[9],11	[12],14,15	13,[15],16	17,[18],20	12,[13]	10,11,[12]
	14,[17],20	13,14	29,30	[11],[15],16,18	X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2	8,9.3	8,11
	14,17,[19]	11			2	
8X2N9L	GlobalFiler™					
	15,16,17.3	20,21,23,25	11,11.3	16	9,11	
3e	8,9,11	14,15	13,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,16,17,18	X,Y	10,12
	16.1,20,23,24			18,28.2	6,8,9.3	8,11
	14,17				2	
94L9MK	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,[11.3]	[15],16	9,11	
3e	[8,9],11	[12],14,15	13,[15],16	17,[18],20	12,[13]	10,11,[12,13]
	14,[17],20	13,14	29,30	[11,15],16,18	X,[Y]	10,12
	16.1,[20],23,[24]			[18,25.2],28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	[11]			[2]	
993GBK	PowerPlex® Fusion					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24	9,10,11,13	8,10,11,13		6,8,9.3	8,11,12
	14,17,19	11				
99YUU7	GlobalFiler™ (STRmix)					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	8,9.3	8,11,12
	14,17,19	11			2	
9H343G	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
3e	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,(20),23,(24)			28.2,28.2	(6),8,9.3	8,11
	14,17	NR			NR	
9KAL2D	GlobalFiler™					
	15,16	21,25	11,11	16,16	9,11	
3e	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					

TABLE 1

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

9LPQV6	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,[11.3]	[15],16	9,11	
	3e [8],[9],11	[12],14,15	13,[15],16	17,[18],20	12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],[15],16,18	X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	11		2		
A394L2	PowerPlex® Fusion					
	15,16	20,21,25	10,11	15,16	9,11	
	3e 11	14,15	13,15,16	17,18,20	12	10,11,13
	14,17,20	13,14	29,30	15,16,18	X,Y	10,12
	16.1,20,23	10,11	8,13		6,8,9.3	8,11
	14,17,19	11				
A6ENA2	GlobalFiler™					
	15,16	20,21,23,25	11,[11.3]	[15],16	9,11	
	3e [8],[9],11	[12],14,15	13,[15],16	17,[18],20	12,[13]	10,11,[12]
	14,[17],20	13,14	29,30	[11],[15],16,18	X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	11		2		
A6WB9J	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,[11.3]	[15],16	9,11	
	3e [8,9],11	[12],14,15	13,[15],16	17,[18],20	12,[13]	10,11,[12,13]
	14,[17],20	13,14	29,30	[11],16,18	X,[Y]	10,12
	16.1,[20],23,[24]			[18],28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	[11]		[2]		
ACYJFC	PowerPlex® Fusion 6C (STRmix)					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
	3e 8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24	9,10,11,13	8,10,11,13	18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11	18	18		
AJFZ72	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	11,11,[11.3]	[15],16,16	9,11	
	3e [8],[9],11,11	[12],14,15	13,[15],16	17,[18],20	12,12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],[15],16,18	X,X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2,28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	[11]		[2]		
B7PJXE	GlobalFiler™ (STRmix)					
	15,16	20,21,23,25	10,11,11.3	15,16	9,11	
	3e 11	12,14,15	13,15,16	17,20	12,13	10,11,13
	14,17,20	13,14	29,30	11,16,18	X,Y	10,12
	16.1,20,23,24			28.2	6,8,9.3	8,11
	14,17	11		2		

TABLE 1

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

BCP3UH	GlobalFiler™					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11			2	
BDQXJF	PowerPlex® Fusion 5C					
	15,16,17.3	21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12	10,11,12,13
	14,17,20	13,14	29,30	11,16,18	X,Y	10,12
	16.1,20,23,24	9,10,11,13	8,10,11,13		6,8,9.3	8,11,12
	14,17,19	11				
BN2AT4	GlobalFiler™ (STRmix)					
	15,16,17.3	20,21,23,25	11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23			25.2,28.2	6,8,9.3	8,11
	14,17,19	11			2	
BV6EM9	PowerPlex® Fusion 6C (STRmix)					
	15,16,17.3	20,21,23,25	11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24	9,10,11	8,11,13	18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11	18	18		
BZ2YTD	Identifiler® Plus					
		[20],21,[23],25		[15],16	9,11	
3e	[8],[9],11	[12],14,15			12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30		X,[Y]	10,12
	16.1,[20],23,[24]				[6],8,9.3	8,11,[12]
	14,17,[19]					
C4RWC2	GlobalFiler™ (STRmix)					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11			2	
CAH7LZ	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,[11.3]	[15],16	9,11	
3e	[9],11	[12],14,15	13,[15],16	17,[18],20	12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],16,18	X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2	[6],8,9.3	8,11,[12]
	14,17	11			2	

TABLE 1

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

CK64VD	GlobalFiler™					
	15,16,17.3	20,21,23,25	11,11.3	16	9,11	
	3e 8,9,11	14,15	13,16	17,20	12,13	10,11
	14,20	13,14	29,30	16,18	X,Y	10,12
	16.1,20,23,24			28.2	6,8,9.3	8,11,12
	14,17			2		
CKJP6F	PowerPlex® Fusion 5C					
	15,16,17.3	21,23,25	11,11.3	16	9,11	
	3e 8,11	12,14,15	13,15,16	17,20	12	10,11,12,13
	14,17,20	13,14	29,30	11,16,18	X,Y	10,12
	16.1,20,23	10,11,13	8,11,13		6,8,9.3	8,11,12
	14,17,19	11				
CVH69Y	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	11,11,[11.3]	[15],16,16	9,11	
	3e [8],[9],11,11	[12],14,15	13,[15],16	17,[18],20	12,12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],16,18	X,X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2,28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	NR,[11]		2		
D3GAF9	NGM SElect					
	15,16,[17.3]	[20],21,[23],25	[10],11,[11.3]	[15],16		
	3e [12],14,15		13,15,16	17,[18],20		10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],[15],16,[17],18	X,[Y]	
	16.1,[20],23,[24]			[18],[25.2],28.2	[6],8,9.3	
	14,17,[19]					
DFFMQT	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,11,[11.3]	[15],16,16	9,11	
	3e [8],[9],11,11	[12],14,15	13,[15],16	17,[18],20	12,12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],[15],16,18	X,X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2,28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	[11]		2		
DFLBBX	GlobalFiler™					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
	3e 8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11		2		
DWP6HX	PowerPlex® Fusion					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
	3e 8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24	9,10,11,13	8,10,11,13		6,8,9.3	8,11,12
	14,17,19	11				

TABLE 1

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

DZMKNW	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,11,[11.3]	16,16	9,11	
	3e [8,9],11,11	[12],14,15	13,[15],16	17,[18],20	12,12,[13]	10,11,[12,13]
	14,[17],20	13,14	29,30	[11],16,18	X,X,[Y]	10,12
	16.1,[20],23,[24]			28.2,28.2	[6],8,9.3	8,11,[12]
	14,17	NR		[2]		
E784QE	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,[11.3]	[15],16	9,11	
	3e [8,9],11	[12],14,15	13,[15],16	17,[18],20	12,[13]	10,11,[12,13]
	14,[17],20	13,14	29,30	[11,15],16,18	X,[Y]	10,12
	16.1,[20],23,[24]			[18,25.2],28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	[11]		[2]		
EBKNWZ	GlobalFiler™ (STRmix)					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
	3e 8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11		2		
EEPCEB	GlobalFiler™					
	15,16,[17.3]	[21],[23],25	[10],11,[11.3]	[15],16	9,11	
	3e [8],11	[12],14,15	13,16	17,[18],20	12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],16,18	X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2	8,9.3	8,11,[12]
	14,17,[19]	NR		2		
EGT8XE	GlobalFiler™					
	15,16,[17.3]	20,21,23,25	[10],11,[11.3]	[15],16	9,11	
	3e [8,9],11	[12],14,15	13,[15],16	17,[18],20	12,[13]	10,11,[12,13]
	14,[17],20	13,14	29,30	[11,15],16,18	X,[Y]	10,12
	16.1,[20],23,[24]			[18,25.2],28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	[11]		[2]		
EL7T6Z	PowerPlex® Fusion 5C					
	15,16	21,23,25	11,11	15,16	9,11	
	3e 9,11	12,14,15	13,15,16	17,20	12,12	10,11,12
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23	10,11	8,13		6,8,9.3	8,11
	14,17					
EPLFH6	GlobalFiler™					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
	3e 8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11		2		

TABLE 1

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

EQEB6D	GlobalFiler™					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
	3e 8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11		2		
ETLQE6	Identifiler®					
		21,25		16,16	9,11	
	3e 11,11	14,15			12,12	10,11
	14,20	13,14	29,30		X,X	10,12
	R(16.1),23				8,9.3	8,11
	14,17					
EUV8NQ	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,11,[11.3]	[15],16,16	9,11	
	3e [8],[9],11,11	[12],14,15	13,[15],16	17,[18],20	12,12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],16,18	X,X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2,28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	[11]		[2]		
EXHDAE	GlobalFiler™					
	15,16	20,21,23,25	11,11.3	16	9,11	
	3e 8,9,11	12,14,15	13,15,16	17,18,20	12	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,28.2	6,8,9.3	8,11,12
	14,17	11		2		
FV9RVD	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,[11.3]	[15],16	9,11	
	3e [8],[9],11	[12],14,15	13,[15],16	17,[18],20	12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],[15],16,18	X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	[11]		[2]		
G2PMB8	GlobalFiler™					
	15,16,[17.3]	[20],21,25	[10],11	[15],16	9,11	
	3e [8],11	[12],14,15	13,[15],16	17,20	12	10,11,[12]
	14,[17],20	13,14	29,30	[15],16,18	X	10,12
	16.1,[20],23,[24]			[18],28.2	8,9.3	8,11,[12]
	14,17			2		
GCV696	Identifiler® Plus					
		20,21,23,25		15,16	9,11	
	3e 8,9,11	12,14,15			12,13	10,11,12,13
	14,17,20	13,14	29,30		X,Y	10,12
	16.1,20,23,24				6,8,9.3	8,11,12
	14,17,19					



TABLE 1

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

GG7HQ4	GlobalFiler™					
		15,16	[20],21,25	[10],11	[15],16	9,11
3e		[9],11	[12],14,15	13,[15],16	17,20	12,[13]
		14,20	13,14	29,30	[11],16,18	X,[Y]
		16.1,23			28.2	8,9.3
		14,17				2
GRJK9V	PowerPlex® Fusion					
		15,16,17.3	20,21,23,25	10,11	15,16	9,11
3e		9,11	12,14,15	13,15,16	17,18,20	12
		14,17,20	13,14	29,30	16,18	X,Y
		16.1,20,23	9,10,11	8,13		6,8,9.3
		14,17,19	11			8,11,12
GTKFV8	GlobalFiler™					
		15,16	[20],21,25	11	[15],16	9,11
3e		11	14,15	13,[15],16	17,20	12
		14,20	13,14	29,30	[15],16,18	X
		16.1,23			28.2	[6],8,9.3
		14,17				8,11
H2AGRB	GlobalFiler™					
		15,16,[17.3]	20,21,23,25	[10],11,[11.3]	15,16	9,11
3e		[8],[9],11	[12],14,15	13,[15],16	17,[18],20	12,12
		14,[17],20	13,14	29,30	[11],16,18	X,[Y]
		16.1,[20],23,[24]			[18],[25.2],28.2	[6],8,9.3
		14,17	[11]			[2]
HC7MKA	PowerPlex® Fusion					
		15,16,17.3	20,21,23,25	11	16	9,11
3e		8,9,11	12,14,15	13,16	17,20	12
		14,17,20	13,14	29,30	11,15,16,18	X,Y
		16.1,20,23	9,10,11	8,10,13		6,8,9.3
		14,17,19	11			8,11,12
HVHG9A	PowerPlex® Fusion					
		15,16	20,21,23,25	10,11,11.3	15,16	9,11
3e		8,9,11	12,14,15	13,15,16	17,18,20	12,13
		14,17,20	13,14	29,30	11,15,16,18	X,Y
		16.1,20,23,24	9,10,11,13	8,10,11,13		6,8,9.3
		14,17,19	11			8,11,12
J66UR7	GlobalFiler™ (STRmix)					
		14,15,16,Q	20,21,23,25	10,11,Q	15,16,Q	9,10,11,Q
3e		9,10,11,Q	13,14,15,Q	13,15,16,Q	16,17,18,19,20,Q	11,12,13,Q
		13,14,17,19,20,Q	13,14,Q	28,29,30,Q	15,16,17,18,Q	X,Y
		16.1,22,23,Q			18,27.2,28.2,Q	6,8,9.3,Q
		14,17,19,Q				8,11,Q

TABLE 1

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

J9KADQ	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,11,[11.3]	[15],16,16	9,11	
3e	[8],[9],11,11	[12],14,15	13,[15],16	17,[18],20	12,12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],[15],16,18	X,X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2,28.2	[6],8,9.3	8,11,[12]
				2		
	14,17,[19]	[11]			[2]	
JAEV93	PowerPlex® Fusion 6C (GeneMapper ID-X 1.4)					
	15,16	21,25	11,11	16,16	9,11	
3e	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23	10,11	8,13	28.2,28.2	8,9.3	8,11
	14,17					
JF4DKT	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11	[15],16	9,11	
3e	11	14,15	13,[15],16	17,20	12	10,11
	14,20	13,14	29,30	[11],16,18	X,[Y]	10,12
	16.1,23			28.2	[6],8,9.3	8,11
	14,17	11			2	
K8P2P8	GlobalFiler™					
	15,16,17.3	21,23,25	11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12
	14,17,20	13,14	29,30	15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11			2	
KCJ3P2	Identifiler® Plus					
		20,21,23,25		15,16	9,11	
3e	8,9,11	12,14,15			12,13	10,11,12,13
	14,17,20	13,14	29,30		X,Y	10,12
	16.1,20,23,24				6,8,9.3	8,11,12
	14,17,19					
KP4HRZ	PowerPlex® 5C (BulletProof)					
	15,16,17.3	20,21,23,25	[10],11,[11.3]	15,16	9,11	
3e	[8],[9],11	12,14,15	13,15,16	17,18,20	12,[13]	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,[Y]	10,12
	16.1,20,23,24	9,10,11,13	8,10,11,13		6,8,9.3	8,11,12
	14,17,19	11				
LCWTBQ	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,11,[11.3]	[15],16,16	9,11	
3e	[8],[9],11,11	[12],14,15	13,[15],16	17,[18],20	12,12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],[15],16,18	X,X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2,28.2	[6],8,9.3	8,11,[12]
				2		
	14,17,[19]	[11]			[2]	

TABLE 1

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

LFYP37	PowerPlex® Fusion					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,11	12,14,15	13,16	17,18,20	12	10,11,12
	14,17,20	13,14	29,30	16,18	X,Y	10,12
	16.1,20,23	9,10,11	8,13		8,9.3	8,11,12
	14,17,19					
M3NJMX	PowerPlex® Fusion 6C (STRmix)					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,16	17,20	12,13	10,11,12
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24	10,11,13	8,11,13	18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19					
M6MHDB	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	11,11,[11.3]	16,16	9,11	N/A
3e	[8],[9],11,11	[12],14,15	13,[15],16	17,[18],20	12,12	10,11,[12]
	14,[17],20	13,14	29,30	[11],16,18	X,X,[Y]	10,12
	16.1,23,[24]	N/A	N/A	[18],28.2,28.2	8,9.3	8,11
	14,17	N/A	N/A	N/A	[2]	
MEHTB7	GlobalFiler™					
	15,16,[17.3]	20,21,23,25	[10],11,[11.3]	15,16	9,11	
3e	[8],[9],11	[12],14,15	13,15,16	17,18,20	12,[13]	10,11,[12],[13]
	14,17,20	13,14	29,30	[11],[15],16,18	X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2	6,8,9.3	8,11,12
	14,17,19	[11]			[2]	
MFCJEZ	PowerPlex® Fusion 6C					
	15,16,[17.3]	[20],21,[23],25	[10],11,[11.3]	[15],16	9,11	
3e	[8,9],11	[12],14,15	13,[15],16	17,[18],20	12,[13]	10,11,[12],13
	14,[17],20	13,14	29,30	[11,15],16,18	X,[Y]	10,12
	16.1,[20],23,[24]	[9],10,11,[13]	8,[10,11],13	[18,25.2],28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	[11]	[18]	[18]		
MP34KX	GlobalFiler™					
	15,16	21,25	11	[15],16	9,11	
3e	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X,[Y]	10,12
	16.1,[20],23			28.2	8,9.3	8,11
	14,17					
MPE2P3	GlobalFiler™					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17	11			2	

TABLE 1

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

MV3NHM	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,11,[11.3]	[15],16,16	9,11	
3e	[8],[9],11,11	[12],14,15	13,[15],16	17,[18],20	12,12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],16,18	X,X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2,28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	[11]			[2]	
MV7BY2	GlobalFiler™					
	15,16	[20],21,25	[10],11,[11.3]	[15],16	9,11	
3e	11	[12],14,15	13,[15],16	17,20	12	10,11
	14,[17],20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
N2J8VG	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,11,[11.3]	[15],16,16	9,11	
3e	[8],[9],11,11	[12],14,15	13,[15],16	17,[18],20	12,12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],[15],16,18	X,X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2,28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	[11]			[2]	
PAU3VL	GlobalFiler™					
	15,16,[17.3]	20,21,23,25	[10],11,[11.3]	[15],16	9,11	
3e	[8],[9],11	[12],14,15	13,[15],16	17,[18],20	12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],[15],16,18	X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2	[6],8,[9.3]	8,11,[12]
	14,17,[19]	[11]			[2]	
PH4UXP	GlobalFiler™ (STRmix)					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11			2	
PMLMH4	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,[11.3]	15,16	9,11	
3e	[8],[9],11	[12],14,15	13,[15],16	17,18,20	12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],[15],16,18	X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	[11]			[2]	
PRWZZ3	GlobalFiler™					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,16	17,18,20	12,13	10,11,12
	14,17,20	13,14	29,30	11,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17	11			2	

TABLE 1

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

Q9ZU73	PowerPlex® Fusion					
	15,16,17.3	20,21,23,25	10,11,11.3	16	9,11	
	3e 8,11	12,14,15	13,16	17,18,20	12	10,11,12,13
	14,17,20	13,14	29,30	11,16,18	X,Y	10,12
	16.1,20,23,24	9,10,11,13	8,10,11,13		6,8,9.3	8,11,12
	14,17,19	11				
QE4G2	PowerPlex® Fusion					
	15,16	21,23,25	11	16	9,11	
	3e 8,9,11	12,14,15	13,15,16	17,20	12	10,11,12
	14,17,20	13,14	29,30	11,16,18	X,Y	10,12
	16.1,20,23	9,10,11,13	8,10,13		6,8,9.3	8,11,12
	14,17,19	11				
QJXE3	GlobalFiler™					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
	3e 8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11		2		
QPKPEJ	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,11,[11.3]	[15],16,16	9,11	
	3e [8],[9],11,11	[12],14,15	13,[15],16	17,[18],20	12,12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],[15],16,18	X,X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2,28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	[11]		[2]		
QT82L2	PowerPlex® Fusion					
	15,16,17.3	20,21,23,25	11	16	9,11	
	3e 11	12,14,15	13,16	17,20	12	10,11,12
	14,17,20	13,14	29,30	16,18	X,Y	10,12
	16.1,23	9,10,11	8,11,13		6,8,9.3	8,11,12
	14,17,19	11				
QW7DG2	PowerPlex® Fusion 5C					
	15,16,17.3	21,25	11	16	9,11	
	3e 8,11	14,15	13,16	17,20	12	10,11,12
	14,17,20	13,14	29,30	16,18	X,Y	10,12
	16.1,20,23	10,11,13	8,11,13		6,8,9.3	8,11
	14,17,19					
RDM6CJ	PowerPlex® Fusion 5C					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
	3e 11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	16,18	X,Y	10,12
	16.1,23		8		6,8,9.3	8,11
	14,17,19					

TABLE 1

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

RK92DM	GlobalFiler™					
	15,16	[20],21,25	11,[11.3]	[15],16	9,11	
	3e 11,11	[12],14,15	13,16	17,20	12,[13]	10,11
	14,[17],20	13,14	29,30	[15],16,18	X,[Y]	10,12
	16.1,23			[18],28.2	8,9.3	8,11
	14,17	NR		2		
RL6ATX	GlobalFiler™ (STRmix)					
	14,15,16,17.3,Q	20,21,23,24,25,Q	10,11,11.3,Q	15,16,Q	8,9,10,11,Q	
	3e 9,10,11,Q	12,13,14,15,Q	12,13,15,16,Q	16,17,18,19,20,Q	11,12,13,Q	9,10,11,12,13,Q
	13,14,17,19,20,Q	12,13,14,Q	28,29,30,Q	11,15,16,17,18	X,Y	9,10,11,12,Q
	16.1,20,22,23,24,Q			18,25.2,27.2,28.2,2,Q	6,7,8,9.3,Q	8,11,12,Q
	13,14,16,17,19,Q	11		2		
RN9CAM	GlobalFiler™ (STRmix)					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
	3e 8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11		2		
T2BVTY	PowerPlex® Fusion					
	15,16,17.3	20,21,23,25	11,11.3	16	9,11	
	3e 9,11	12,14,15	13,16	17,18,20	12	10,11,12,13
	14,17,20	13,14	29,30	11,16,18	X,Y	10,12
	16.1,20,23,24	9,10,11	8,11,13		6,8,9.3	8,11,12
	14,17,19	11				
T2MW8L	GlobalFiler™ (STRmix)					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
	3e 8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11		2		
T7K9BX	PowerPlex® Fusion					
	15,16	20,21,23,25	10,11	15,16	9,11	
	3e 8,9,11	12,14,15	13,16	17,20	12	10,11
	14,17,20	13,14	29,30	16,18	X	10,12
	16.1,23	10,11	8,13		8,9.3	8,11
	14,17,19					
T7KDLZ	GlobalFiler™					
	15,16,[17.3]	21,[23],25	11,[11.3]	16	9,11	
	3e [8],[9],11	[12],14,15	13,[15],16	17,[18],20	12,[13]	10,11,[13]
	14,[17],20	13,14	29,30	[11],16,18	X,[Y]	10,12
	16.1,[20],23			[18],[25.2],28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	[11]		[2]		

TABLE 1

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

TMT8FV	GlobalFiler™					
	15,16	[20],21,[23],25	11	16	9,11	
3e	11	[12],14,15	13,[15],16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X,[Y]	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17				2	
TPWYNV	GlobalFiler™ (STRMIX)					
	14,15,16,Q	20,21,23,24,25,Q	10,11,11.3	15,16,Q	9,10,11,Q	
3e	8,10,11,Q	12,13,14,15,Q	13,15,16,Q	16,17,18,19,20,Q	11,12,Q	10,11,12,Q
	13,14,17,19,20,Q	12,13,14,Q	28,29,30,Q	11,15,16,17,18,Q	X,Y	9,10,11,12,Q
	16.1,22,23,24,Q			18,25.2,27.2,28,28.2,Q	6,8,9.3,Q	8,11,12,Q
	14,16,17,Q	11			2	
U33FQH	GlobalFiler™					
	15,16	21,[23],25	[10],11,[11.3]	[15],16	9,11	
3e	11,11	14,15	13,[15],16	17,20	12,[13]	10,11,[13]
	14,[17],20	13,14	29,30	[16],18	X,[Y]	10,12
	16.1,23			28.2,28.2	8,9.3	8,[11]
	14,17	11			NR	
U4W2LV	GlobalFiler™					
	15,16	[20],21,25	11,[11.3]	16	9,11	
3e	[8],[9],11	[12],14,15	13,[15],16	17,20	12,[13]	10,11
	14,[17],20	13,14	29,30	[15],16,18	X,[Y]	10,12
	16.1,[20],23			28.2	[6],8,9.3	8,11
	14,17	11			2	
U74JKQ	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,[11.3]	16	9,11	
3e	[8],[9],11	[12],14,15	13,[15],16	17,20	12	10,11
	14,[17],20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
UA4NEX	GlobalFiler™					
	15,16,17.3	20,21,23,25	11,11.3	16	9,11	
3e	11	14,15	13,15,16	17,20	12,13	10,11,13
	14,17,20	13,14	29,30	11,16,18	X	10,12
	16.1,20,23,24			18,28.2	6,8,9.3	8,11,12
	14,17				2	
ULE64F	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,11,[11.3]	[15],16,16	9,11	
3e	[8],[9],11,11	[12],14,15	13,[15],16	17,[18],20	12,12	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],[15],16,18	X,X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2,28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	NR,[11]			NR,[2]	

TABLE 1

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

UTFH3Y	GlobalFiler™					
	15,16	21,25	11	16	9,11	-
3e	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23	-	-	28.2	8,9.3	8,11
	14,17	NM	-	-	NM	
UU94ZV	GlobalFiler™ (STRMix)					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11			2	
UVHFDQ	Identifiler® Plus					
		20,21,23,25		15,16	9,11	
3e	8,9,11	12,14,15			12,13	10,11,12,13
	14,17,20	13,14	29,30		X,Y	10,12
	16.1,20,23,24				6,8,9.3	8,11,12
	14,17,19					
UVDKC	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	[10],11,11,[11.3]	[15],16,16	9,11	
3e	[8],[9],11,11	[12],14,15	13,[15],16	17,[18],20	12,12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],[15],16,18	X,X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2,28.2	[6],8,9.3	8,11,[12]
	14,17,[19]	[11]		2	[2]	
UWACZZ	GlobalFiler™					
	15,16	[20],21,[23],25	11,[11.3]	16	9,11	
3e	11	[12],14,15	13,16	17,20	12	10,11
	14,[17],20	13,14	29,30	[11],16,18	X	10,12
	16.1,[20],23			[18,25.2],28.2	[6],8,9.3	8,11,[12]
	14,17	[11]			[2]	
UXA8PX	PowerPlex® Fusion					
	15,16	20,21,23,25	11	16	9,11	
3e	11	12,14,15	13,16	17,20	12	10,11,12
	14,17,20	13,14	29,30	11,16,18	X,Y	10,12
	16.1,20,23	10,11	8,13		8,9.3	8,11
	14,17					
VBC66G	GlobalFiler™					
	15,16	[20],21,[23],25	11,[11.3]	16	9,11	
3e	[8],11	[12],14,15	13,[15],16	17,20	12,[13]	10,11
	14,[17],20	13,14	29,30	[11,15],16,18	X,[Y]	10,12
	16.1,23,[24]			28.2	[6],8,9.3	8,11
	14,17,[19]	11			2	



TABLE 1

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

VED9XP	PowerPlex® Fusion 5C (STRmix)					
	15,16,[17.3]	[20],21,[23],25	[10],11,[11.3]	[15],16	9,11	
3e	[8],[9],11	[12],14,15	13,[15],16	17,[18],20	12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],16,18	X,[Y]	10,12
	16.1,[20],23,[24]	[9],10,11,[13]	8,[10],[11],13		[6],8,9.3	8,11,12
	14,17,[19]	[11]				
VMHFDP	GlobalFiler™					
	15,16	ND	11,11	16,16	9,11	
3e	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17	ND			ND	
VU2JKR	Investigator® 24plex					
	15,16	21,25	11,11	16,16	9,11	
3e	11,11	14,15	13,16	17,20	12,12	10,11
	14,20	13,14	29,30	16,18	X,X	10,12
	16.1,23			28.2,28.2	8,9.3	8,11
	14,17					
VWPVKW	PowerPlex® Fusion					
	15,16,[17.3]	[20],21,[23],25	[10],11,[11.3]	[15],16	9,11	
3e	[8],[9],11	[12],14,15	13,[15],16	17,[18],20	12,[13]	10,11,[12],[13]
	14,[17],20	13,14	29,30	[11],[15],16,18	X,[Y]	10,12
	16.1,[20],23,[24]	[9],10,11,[13]	8,[10],[11],13		[6],8,9.3	8,11,[12]
	14,17,[19]	[11]				
VXM83J	GlobalFiler™ (STRmix (sperm fraction))					
	15,16,[17.3]	[20],21,[23],25	11,[11.3]	16	9,11	
3e	[8],[9],11	[12],14,15	13,[15],16	17,20	12	10,11,[12]
	14,[17],20	13,14	29,30	16,18	X,[Y]	10,12
	16.1,[20],23			[18],[25.2],28.2	[6],8,9.3	8,11
	14,17,[19]				[2]	
W2WZBM	GlobalFiler™					
	15,16	21,25	11	[15],16	9,11	
3e	[9],11	14,15	13,[15],16	17,20	12	10,11
	14,20	13,14	29,30	[15],16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17					
W4Y8TA	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	11,11,[11.3]	16,16	9,11	
3e	[8],[9],11,11	[12],14,15	13,[15],16	17,[18],20	12,12	10,11,[12]
	14,[17],20	13,14	29,30	[11],16,18	X,X,[Y]	10,12
	16.1,23,[24]			[18],28.2,28.2	8,9.3	8,11
	14,17				[2]	

TABLE 1

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

WE97QW	GlobalFiler™					
		15,16	20,21,23,25	11,11.3	15,16	9,11
3e		8,9,11	12,14,15	13,16	17,18,20	12,13
		14,17,20	13,14	29,30	11,15,16,18	X,Y
		16.1,20,23,24			18,25.2,28.2	6,8,9.3
		14,17	11			2
WGADNE	PowerPlex® Fusion					
		15,16,17.3	20,21,23,25	10,11	15,16	9,11
3e		8,9,11	12,14,15	13,15,16	17,18,20	12,13
		14,17,20	13,14	29,30	11,15,16,18	X,Y
		16.1,20,23,24	9,10,11,13	8,10,11,13		6,8,9.3
		14,17,19	11			8,11,12
WKAMWV	GlobalFiler™					
		15,16	20,21,23,25	10,11,11.3	15,16	9,11
3e		8,9,11	12,14,15	13,15,16	17,18,20	12,13
		14,17,20	13,14	29,30	11,15,16,18	X,Y
		16.1,20,23,24			18,25.2,28.2	6,8,9.3
		14,17,19	11			2
WM39UT	PowerPlex® Fusion 6C					
		15,16,[17.3]	[20],21,[23],25	[10],11,11,[11.3]	[15],16,16	9,11
3e		[8],[9],11,11	[12],14,15	13,[15],16	17,[18],20	12,12,[13]
		14,[17],20	13,14	29,30	[11],16,18	X,X,[Y]
		16.1,[20],23,[24]	[9],10,11,[13]	8,[10],[11],13	[18],[25.2],28.2,28.2	[6],8,9.3
		14,17,[19]	[11]	[18]	[18]	8,11,[12]
WQKFAP	PowerPlex® Fusion 5C					
		15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11
3e		8,9,11	12,14,15	13,15,16	17,18,20	12
		14,17,20	13,14	29,30	11,15,16,18	X,Y
		16.1,20,23,24	9,10,11,13	8,10,11,13		6,8,9.3
		14,17,19	11			8,11,12
WQVHVE	PowerPlex® Fusion 5C					
		15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11
3e		8,9,11	12,14,15	13,15,16	17,18,20	12,13
		14,17,20	13,14	29,30	11,15,16,18	X,Y
		16.1,20,23,24	9,10,11,13	8,10,11,13		6,8,9.3
		14,17,19	11	-	-	-
WVVTRE	PowerPlex® Fusion 5C					
		15,16	21,23,25	11,11	16,16	9,11
3e		9,11	14,15	13,15,16	17,20	12,12
		14,17,20	13,14	29,30	16,18	X,X
		16.1,20,23,24	10,11	8,13		6,8,9.3
		14,17,19	11			8,11,12

TABLE 1

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

X6CRYV	PowerPlex® Fusion 5C					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,16,18	X,Y	10,12
	16.1,20,23,24	9,10,11	8,10,11,13		6,8,9.3	8,11,12
	14,17,19	11				
XAPD7G	PowerPlex®					
	15,16	21,25	11,11	15,16	9,11	
3e	11,11	14,15	13,15,16	17,18,20	12,12	10,11
	14,17,20	13,14	29,30	16,18	X,Y	10,12
	16.1,23,24	10,11	8,13		6,8,9.3	8,11
	14,17					
XCYKBU	GlobalFiler™					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11			2	
XG6E6Q	GlobalFiler™					
	15,16	[20],21,25	[10],11,[11.3]	[15],16	9,11	
3e	11	14,15	13,16	17,20	12	10,11
	14,20	13,14	29,30	[15],16,18	X	10,12
	16.1,23			28.2	8,9.3	8,11
	14,17				2	
XMT2ZV	GlobalFiler™					
	15,16,[17.3]	[20],21,25	[10],11,[11.3]	[15],16	9,11	
3e	[8,9],11	[12],14,15	13,[15],16	17,[18],20	12,[13]	10,11,[12,13]
	14,[17],20	13,14	29,30	[11],16,18	X,[Y]	10,12
	16.1,[20],23			[18,25.2],28.2	[6],8,9.3	8,11
	14,17,[19]	[11]			[2]	
XNTWPT	PowerPlex® Fusion 5C					
	15,16,17.3	20,21,23,25	11,11.3	16	9,11	
3e	8,9,11	12,14,15	13,16	17,18,20	12	10,11,12,13
	14,17,20	13,14	29,30	11,16,18	X	10,12
	16.1,20,23	9,10,11,13	8,10,13		6,8,9.3	8,11,12
	14,17,19	11				
Y3NFZP	GlobalFiler™					
	15,16,[17.3]	21,[23],25	[10],11	[15],16	9,11	
3e	11	[12],14,15	13,[15],16	17,20	12,[13]	10,11
	14,[17],20	13,14	29,30	[15],16,18	X	10,12
	16.1,23,[24]			28.2	8,9.3	8,11
	14,17				2	

TABLE 1

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

YBX84T	PowerPlex® Fusion					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24	9,10,11,13	8,10,11,13		6,8,9.3	8,11,12
	14,17,19	11				
YEUVHE	GlobalFiler™ (STRmix)					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
	14,17,19	11			2	
YEWHYT	PowerPlex® Fusion 5C					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24	9,10,11,13	8,10,11,13		6,8,9.3	8,11,12
	14,17,19	11				
YG2A8T	GlobalFiler™					
	15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11	
3e	8,9,11	14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11
	14,17,19	11			2	
YN4ZWQ	PowerPlex® 5C					
	15,16,[17.3]	[20],21,25	11	[15],16	9,11	--
3e	11	14,15	13,[15],16	17,20	12	10,11
	14,20	13,14	29,30	[15],16,18	X	10,12
	16.1,23	[9],10,11	8,13	--	8,9.3	8,11
	14,17	--	--	--	--	
YTHTRP	GlobalFiler™ (STRmix)					
	14,15,16,17.3,Q	20,21,23,24,25,Q	10,11,11.3,Q	15,16,Q	9,10,11,Q	
3e	9,10,11,Q	12,13,14,15,Q	12,13,15,16,Q	16,17,19,20,Q	11,12,Q	10,11,13,Q
	13,14,17,19,20,Q	12,13,14,Q	28,29,30,Q	15,16,17,18,19,Q	X,Y	10,11,12,Q
	16.1,20,22,23,24,Q			18,25.2,27.2,28.2,Q	8,9.3,Q	8,11,Q
	14,16,17,Q	11			2	
YV4KVE	PowerPlex® Fusion 5C					
	15,16	20,21,23,25	10,11	15,16	9,11	
3e	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12
	14,17,20	13,14	29,30	11,16,18	X,Y	10,12
	16.1,20,23,24	10,11	8,13		6,8,9.3	8,11,12
	14,17,19	11				

TABLE 1

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

YWUCM7	GlobalFiler™					
	15,16,[17.3]	[20],21,[23],25	11,11,[11.3]	16,16	9,11	
	3e [8],[9],11,11	[12],14,15	13,[15],16	17,[18],20	12,12	10,11,[12]
	14,[17],20	13,14	29,30	[11],16,18	X,X,[Y]	10,12
	16.1,23,[24]			[18],28.2,28.2	8,9.3	8,11
	14,17			[2]		
YXVJ9D	GlobalFiler™					
	15,16,[17.3]	20,21,23,25	[10],11,[11.3]	[15],16	9,11	
	3e [9],11	[12],14,15	13,[15],16	17,[18],20	12,[13]	10,11,[12]
	14,[17],20	13,14	29,30	[11],[15],16,18	X,[Y]	10,12
	16.1,[20],23,[24]			[18],[25.2],28.2	6,8,9.3	8,11
	14,17,[19]	11		2		
Z8TYCM	GlobalFiler™					
	15,16	[20],21,[23],25	[10],11,[11.3]	[15],16	9,11	
	3e 11	[12],14,15	13,16	17,20	12,[13]	10,11,[13]
	14,[17],20	13,14	29,30	[11],[15],16,18	X,[Y]	10,12
	16.1,[20],23			28.2	[6],8,9.3	8,11
	14,17			2		
ZP98CN	GlobalFiler™					
	15,16	[20],21,25	11	[15],16	9,11	
	3e 11	14,15	13,[15],16	17,20	12	10,11
	14,[17],20	13,14	29,30	16,18	X	10,12
	16.1,23			28.2	[6],8,9.3	8,11
	14,17					
ZYKZ8R	PowerPlex® Fusion 5C					
	15,16,17.3	21,23,25	11	15,16	9,11	
	3e 11	12,14,15	13,16	17,20	12	10,11,13
	14,17,20	13,14	29,30	11,16,18	X,Y	10,12
	16.1,20,23,24	10,11	8,11,13		6,8,9.3	8,11
	14,17					

TABLE 1

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

23GBBQ	GlobalFiler™					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24			18,25.2	6,8
	14,19	11			2	
24BW9N	GlobalFiler™ (STRmix)					
		14,15,16.3,17.3,Q	19,20,22,23,Q	9,10,11.3,Q	14,15,Q	8,9,10,11,Q
	3sp	8,9,11,Q	11,12,13,14,Q	14,15,16,Q	16,17,18,Q	11,12,13,Q
		16,17,Q	12,13,14,Q	28,29,30,Q	11,14,15,16,Q	X,Y
		19,20,23,24,Q			17,17.2,18,24.2,25.2,Q	6,8,Q
	13,14,18,19,Q	11			2	
28R4NB	PowerPlex® Fusion					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24	9,13	10,11		6,8
	14,19	11			8,12	
2EUB8K	Investigator® 24plex (STRMix)					
		15,17.3	20,23	10,11.3	15,15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17,17	13,14	29,29	11,15	X,Y
		20,24			18,25.2	6,8
	14,19	11			8,12	
2J22BQ	PowerPlex® Fusion					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24	9,13	10,11		6,8
	14,19	11			8,12	
2UJLUM	GlobalFiler™					
		15,17.3	20,23	10,11.3	15,15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17,17	13,14	29,29	11,15	X,Y
		20,24			18,25.2	6,8
	14,19	11			2	
2X8WUR	GlobalFiler™					
		15,[16],17.3	20,[21],23,[25]	10,[11],11.3	15,[16]	9,11
	3sp	8,9,[11]	12,14,[15]	15,16	17,18	12,13
		[14],17,[20]	13,14	29,[30]	11,15,[16]	X,Y
		20,24			18,25.2,[28.2]	6,8,[9.3]
	14,19	11			2	
					8,[11],12	

TABLE 1

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

3BME2L	GlobalFiler™					
		15,17.3	20,23	10,11.3	15,15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17,17	13,14	29,29	11,15	X,Y
		20,24			18,25.2	6,8
		14,19	11			2
3L9J9L	GlobalFiler™					
		15,17.3	20,23	10,11.3	15,15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17,17	13,14	29,29	11,15	X,Y
		20,24			18,25.2	6,8
		14,19	11			2
3RDK6A	GlobalFiler™					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24			18,25.2	6,8
		14,19	11			2
3WPHJN	PowerPlex® Fusion					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24	9,13	10,11		6,8
		14,19	11			8,12
4DPR3K	GlobalFiler™ (For epithelial fraction: STRmix v2.7 Deconvolution, conditioned on female victim reference profile)					
		15,17.3	20,23	10,11.3	15,15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17,17	13,14	29,29	11,15	X,Y
		20,24			18,25.2	6,8
		14,19	11,0			2,0
4GZBX2	GlobalFiler™					
		15,[16],17.3	20,[21],23	10,11.3	15,15	9,11
	3sp	8,9,[11]	12,14	15,16	17,18,[20]	12,13
		17,17,[20]	13,14	29,29	11,15	X,Y
		20,24			18,25.2	6,8
		14,19	11			2
4UD3PM	PowerPlex® Fusion					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24	9,13	10,11		6,8
		14,19	11			8,12

TABLE 1

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

66EQGJ	PowerPlex® 21 (STRmix 2.7)						
		15,17.3	20,23		15,15	9,11	13,17
	3sp	8,9	12,14		17,18	12,13	12,13
		17,17	13,14	29,29		X,Y	10,12
		20,24	9,13	10,11		6,8	8,12
	14,19						
6MQGB9	GlobalFiler™ (STRmix)						
		15,17.3	20,23	10,11.3	15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17	13,14	29	11,15	X,Y	10,12
		20,24			18,25.2	6,8	8,12
	14,19	11			2		
6PXV2N	GlobalFiler™						
		15,17.3	20,23	10,11.3	15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17	13,14	29	11,15	X,Y	10,12
		20,24			18,25.2	6,8	8,12
	14,19	11			2		
6UTLAK	Investigator® 24plex QS						
		15,17.3	20,23,[25]	10,11.3	15	9,11	
	3sp	8,9	12,14,[15]	15,16	17,18	12,13	12,13
		17	13,14	29	11,15	X,Y	10,12
		20,24			18,25.2	6,8	8,12
	14,19	11					
7FPPH6	PowerPlex® Fusion 5C						
		15,17.3	20,23	10,11.3	15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17	13,14	29	11,15	X,Y	10,12
		16.1,20,24	9,13	10,11		6,8	8,12
	14,19	11					
7HDW4M	GlobalFiler™						
		15,17.3	20,23	10,11.3	15	9,11	NT
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17	13,14	29	11,15	X,Y	10,12
		20,24	NT	NT	18,25.2	6,8	8,12
	14,19	11	NT	NT	2		
7HXU2L	PowerPlex® Fusion						
		15,17.3	20,23	10,11.3	15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17	13,14	29	11,15	X,Y	10,12
		20,24	9,13	10,11		6,8	8,12
	14,19	11					



TABLE 1

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

7LF2G9	GlobalFiler™ (STRmix)						
		15,17.3	20,23	10,11.3	15	9,11	
	3sp	8,9	12,14	13,15,16	17,18	12,13	10,12,13
		17	13,14	29	11,15	X,Y	10,12
		20,24			18,25.2	6,8	8,12
	14,19	11			2		
7Y33FM	GlobalFiler™						
		15,17.3	20,23	10,11.3	15,15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17,17	13,14	29,29	11,15	X,Y	10,12
		20,24			18,25.2	6,8	8,12
	14,19	11			2		
7ZP9CY	GlobalFiler™						
		15,17.3	20,23	10,11.3	15,15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17,17	13,14	29,29	11,15	X,Y	10,12
		20,24			18,25.2	6,8	8,12
	14,19	11			2		
84JP2X	GlobalFiler™						
		15,17.3	20,[21],23	10,11.3	15,15	9,11	NA
	3sp	8,9,[11]	12,14	15,16	17,18,[20]	12,13	12,13
		17,17,[20]	13,14	29,29	11,15	X,Y	10,12
		20,24	NA	NA	18,25.2	6,8	8,12
	14,19	11	NA	NA	2		
89LZHD	Identifiler®						
			20,23		15,15	9,11	
	3sp	8,9	12,14			12,13	12,13
		17,17	13,14	29,29		X,Y	10,12
		20,24				6,8	8,12
	14,19						
8GF6BE	GlobalFiler™						
		15,17.3	20,23	10,11.3	15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17	13,14	29	11,15	X,Y	10,12
		20,24			18,25.2	6,8	8,12
	14,19	11			2		
8RBJ84	GlobalFiler™						
		15,17.3	20,23	10,11.3	15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17	13,14	29	11,15	X,Y	10,12
		20,24			18,25.2	6,8	8,12
	14,19	11			2		

TABLE 1

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

8RD7NH	GlobalFiler™					
	15,[16],17.3	[20],[21],23	10,[11],11.3	15,[16]	9,11	
	3sp 8,9,[11]	12,14,[15]	[13],[14],15,16	17,18,[20]	12,13	[10],[11],12,13
	[14],17,[20]	13,14	29,[30]	11,15,[16],[18]	X,Y	10,12
	[16.1],20,[23],24			18,25.2,[28.2]	6,8	8,12
14,[17],19	11			2		
8X2N9L	GlobalFiler™					
	15,17.3	20,23	10,11.3	15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
14,19	11			2		
94L9MK	GlobalFiler™					
	15,17.3	20,23	10,11.3	15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
14,19	11			2		
993GBK	PowerPlex® Fusion					
	15,17.3	20,23	10,11.3	15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24	9,13	10,11		6,8	8,12
14,19	11					
99YUU7	GlobalFiler™ (STRmix)					
	15,16,17.3	20,23,25	10,11,11.3	15,16	9,11	
	3sp 8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9.3	8,11,12
14,17,19	11			2		
9H343G	GlobalFiler™					
	15,17.3	20,23	10,(11),11.3	15,(16)	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2,(28.2)	6,8	8,12
14,19	11			2		
9KAL2D	GlobalFiler™					
	15,17.3	20,23	10,11.3	15,15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
14,19	11			2		

TABLE 1

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

9LPQV6	GlobalFiler™					
		15,17.3	20,23	10,11.3	15,15	9,11
	3sp	8,9,[11]	12,14	15,16	17,18	12,13
		17,17	13,14	29,29	11,15	X,Y
		20,24			18,25.2	6,8
	14,[17],19	11			2	
A394L2	PowerPlex® Fusion					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24	9,13	10,11		6,8
	14,19	11			8,12	
A6ENA2	GlobalFiler™					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24			18,25.2	6,8
	14,19	11			2	
A6WB9J	GlobalFiler™					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24			18,25.2	6,8
	14,19	11			2	
ACYJFC	PowerPlex® Fusion 6C (STRmix)					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24	9,13	10,11	18,25.2	6,8
	14,19	11	18	18	8,12	
AJFZ72	GlobalFiler™					
		15,17.3	20,23	10,11.3	15,15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17,17	13,14	29,29	11,15	X,Y
		20,24			18,25.2	6,8
	14,19	11			2	
B7PJXE	GlobalFiler™ (STRmix)					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24			18,25.2	6,8
	14,19	11			2	

TABLE 1

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

BCP3UH	GlobalFiler™					
	15,17.3	20,23,[25]	10,11.3	15	9,11	
3sp	8,9	12,14,[15]	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,[17],19	11			2	
BDQXJF	PowerPlex® Fusion 5C					
	15,17.3	20,23	10,11.3	15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24	9,13	10,11		6,8	8,12
	14,19	11				
BN2AT4	GlobalFiler™ (STRmix)					
	15,16,17.3	20,23,25	10,11,11.3	15,16	9,11	
3sp	8,9,11	12,14,15	13,15,16	17,18,20	12,13	10,11,12,13
	14,17,20	13,14	29,30	11,15,16,18	X,Y	10,12
	16.1,20,23,24			18,25.2,28.2	6,8,9,3	8,11,12
	14,17,19	11			2	
BV6EM9	PowerPlex® Fusion 6C (STRmix)					
	15,17.3	20,23,25	10,11.3	15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	10,12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24	9,13	10,11	18,25.2	6,8	8,12
	14,19	11	18	18		
BZ2YTD	Identifiler® Plus					
		20,23		15,15	9,11	
3sp	8,9	12,14			12,13	12,13
	17,17	13,14	29,29		X,Y	10,12
	20,24				6,8	8,12
	14,19					
C4RWC2	GlobalFiler™ (STRmix)					
	15,17.3	20,23,25	10,11.3	15,16	9,11	
3sp	8,9,11	12,14,15	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15,16	X,Y	10,12
	16.1,20,24			18,25.2	6,8,9,3	8,11,12
	14,19	11			2	
CAH7LZ	GlobalFiler™					
	15,17.3	20,23	10,11.3	15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11			2	

TABLE 1

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

CK64VD	GlobalFiler™					
	15,16,17.3	20,23	10,11.3	15,16	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11		2		
CKJP6F	PowerPlex® Fusion 5C					
	15,17.3	20,23	10,11.3	15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	16.1,20,24	9,13	10,11		6,8	8,12
	14,17,19	11				
CVH69Y	GlobalFiler™					
	15,17.3	20,23,[25]	10,11.3	15,15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2,[28.2]	6,8	8,12
	14,19	11		2		
D3GAF9	NGM SElect					
	15,17.3	20,23	10,11.3	15,15		
	3sp 8,9	12,14	15,16	17,18		12,13
	17,17	13,14	29,29	11,15	X,Y	
	20,24			18,25.2	6,8	
	14,[18],19					
DFFMQT	GlobalFiler™					
	15,17.3	20,23	10,11.3	15,15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11		2		
DFLBBX	GlobalFiler™					
	15,17.3	20,23	10,11.3	15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29,[30]	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11		2		
DWP6HX	PowerPlex® Fusion					
	15,17.3	20,23	10,11.3	15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24	9,13	10,11		6,8	8,12
	14,19	11				

TABLE 1

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

DZMKNW	GlobalFiler™					
		15,17.3	20,23	10,11.3	15,15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17,17	13,14	29,29	11,15	X,Y
		20,24			18,25.2	6,8
		14,19	11			2
E784QE	GlobalFiler™					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17,[20]	13,14	29	11,15	X,Y
		20,24			18,25.2	6,8
		14,19	11			2
EBKNWZ	GlobalFiler™ (STRmix)					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24			18,25.2	6,8
		14,19	11			2
EEPCEB	GlobalFiler™					
		15,17.3	20,23,[25]	10,11.3	15,[16]	9,11
	3sp	8,9,[11]	12,14	15,16	17,18	12,13
		17,17	13,14	29,29	11,[15]	X,Y
		20,24			18,25.2,[28.2]	6,8
		14,19	11			2
EGT8XE	GlobalFiler™					
		15,[16],17.3	20,[21],23,[25]	10,[11],11.3	15,[16]	9,11
	3sp	8,9,[11]	12,14,[15]	[13],15,16	17,18,[20]	12,13
		[14],17,[20]	13,14	29,[30]	11,15,[16,18]	X,Y
		[16.1],20,24			18,25.2,[28.2]	6,8,[9.3]
		14,[17],19	11			2
EL7T6Z	PowerPlex® Fusion 5C					
		15,16,17.3	20,21,23,25	10,11,11.3	15,16	9,11
	3sp	8,9,11	12,14	15,16	17,18	12,13
		17,20	13,14	29,30	11,15,18	X,Y
		20,24	9,10,13	10,11		6,8
		14,19	11			8,11,12
EPLFH6	GlobalFiler™					
		15,17.3	20,23	10,11.3	15,15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17,17	13,14	29,29	11,15	X,Y
		20,24			18,25.2	6,8
		14,19	11			2

TABLE 1

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

EQEB6D	GlobalFiler™					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24			18,25.2	6,8
	14,19	11			2	
ETLQE6	Identifiler®					
			20,23		15,15	9,11
	3sp	8,9	12,14			12,13
		17,17	13,14	29,29		X,Y
		20,24				6,8
	14,19				8,12	
EUV8NQ	GlobalFiler™					
		15,17.3	20,[21],23	10,[11],11.3	15,15	9,11
	3sp	8,9,[11]	12,14,[15]	[13],15,16	17,18	12,13
		17,17	13,14	29,29	11,15	X,Y
		20,24			18,25.2	6,8
	14,19	11			8,[11],12	
					2	
EXHDAE	GlobalFiler™					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24			18,25.2	6,8
	14,19	11			8,12	
					2	
FV9RVD	GlobalFiler™					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24			18,25.2	6,8
	14,19	11			8,12	
					2	
G2PMB8	GlobalFiler™					
		15,17.3	20,23	10,11.3	15,15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17,17	13,14	29,29	11,15	X,Y
		20,24			18,25.2	6,8
	14,19	11			8,12	
					2	
GCV696	Identifiler® Plus					
			20,23		15	9,11
	3sp	8,9	12,14			12,13
		17	13,14	29		X,Y
		20,24				6,8
	14,19				8,12	

TABLE 1

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

GG7HQ4	GlobalFiler™					
		15,17.3	20,23	10,11.3	15,15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17,17	13,14	29,29	11,15	X,Y
		20,24			18,25.2	6,8
		14,19	11			2
GRJK9V	PowerPlex® Fusion					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24	9,13	10,11		6,8
		14,19	11			8,12
GTKFV8	GlobalFiler™					
		15,17.3	20,23	10,11.3	15,15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17,17	13,14	29,29	11,15	X,Y
		20,24			18,25.2	6,8
		14,19	11			2
H2AGRB	GlobalFiler™					
		15,17.3	20,23	10,11.3	15,15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17,17	13,14	29,29	11,15	X,Y
		20,24			18,25.2	6,8
		14,19	11			2
HC7MKA	PowerPlex® Fusion					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24	9,13	10,11		6,8
		14,19	11			8,12
HVHG9A	PowerPlex® Fusion					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24	9,13	10,11		6,8
		14,19	11			8,12
J66UR7	GlobalFiler™ (STRmix)					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24			18,25.2	6,8
		14,19	11			2



TABLE 1

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

J9KADQ	GlobalFiler™					
		15,17.3	20,23,[25]	10,11.3	15,15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17,17	13,14	29,29	11,15	X,Y
		20,24			18,25.2	6,8
		14,19	11			2
JAEV93	PowerPlex® Fusion 6C (GeneMapper ID-X 1.4)					
		15,17.3	20,23	10,11.3	15,15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17,17	13,14	29,29	11,15	X,Y
		20,24	9,13	10,11	18,25.2	6,8
		14,19	11	18	18	
JF4DKT	GlobalFiler™					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24			18,25.2	6,8
		14,19	11			2
K8P2P8	GlobalFiler™					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24			18,25.2	6,8
		14,19	11			2
KCJ3P2	Identifiler® Plus					
			20,23		15	9,11
	3sp	8,9	12,14			12,13
		17	13,14	29		X,Y
		20,24				6,8
		14,19				8,12
KP4HRZ	PowerPlex® 5C (BulletProof)					
		15,17.3	20,23	10,11.3	15,15	9,11
	3sp	8,9	12,14	15,16	17,18	12,12
		17,17	13,14	29,29	11,15	X,Y
		20,24	9,13	10,11		6,8
		14,19	11			8,12
LCWTBQ	GlobalFiler™					
		15,17.3	20,23	10,11.3	15,15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17,17	13,14	29,29	11,15	X,Y
		20,24			18,25.2	6,8
		14,19	11			2

TABLE 1

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

LFYP37	PowerPlex® Fusion					
	15,17.3	20,23	10,11.3	15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24	9,13	10,11		6,8	8,12
	14,19	11				
M3NJMX	PowerPlex® Fusion 6C (STRmix)					
	15,17.3	20,23	10,11.3	15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24	9,13	10,11	18,25.2	6,8	8,12
	14,19	11	18	18		
M6MHDB	GlobalFiler™					
	15,[16],17.3	20,[21],23	10,11.3	15,15	9,11	N/A
	3sp 8,9,[11]	12,14	15,16	17,18,[20]	12,13	12,13
	17,17,[20]	13,14	29,29	11,15	X,Y	10,12
	20,24	N/A	N/A	18,25.2	6,8	8,12
	14,19	11	N/A	N/A	2	
MEHTB7	GlobalFiler™					
	15,17.3	20,23	10,11.3	15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17,[20]	13,14	29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11		2		
MFCJEZ	PowerPlex® Fusion 6C					
	15,17.3	20,23	10,11.3	15,15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24	9,13	10,11	18,25.2	6,8	8,12
	14,19	11	18	18		
MP34KX	GlobalFiler™					
	15,17.3	20,23	10,11.3	15,15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11		2		
MPE2P3	GlobalFiler™					
	15,17.3	20,23	10,11.3	15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11		2		

TABLE 1

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

MV3NHM	GlobalFiler™					
	15,17.3	20,23	10,11.3	15,15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11			2	
MV7BY2	GlobalFiler™					
	15,17.3	20,23	10,11.3	15,15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11			2	
N2J8VG	GlobalFiler™					
	15,17.3	20,23	10,11.3	15,15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11			2	
PAU3VL	GlobalFiler™					
	15,17.3	20,23	10,11.3	15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11			2	
PH4UXP	GlobalFiler™ (STRmix)					
	15,17.3	20,23	10,11.3	15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11			2	
PMLMH4	GlobalFiler™					
	15,17.3	20,23	10,11.3	15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,[15],[18],19	11			2	
PRWZZ3	GlobalFiler™					
	15,17.3	20,23	10,11.3	15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11			2	

TABLE 1

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

Q9ZU73	PowerPlex® Fusion					
	15,17.3	20,23	10,11.3	15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24	9,13	10,11		6,8	8,12
	14,19	11				
QE4G2	PowerPlex® Fusion					
	15,17.3	20,23	10,11.3	15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24	9,13	10,11		6,8	8,12
	14,19	11				
QJXE3	GlobalFiler™					
	15,17.3	20,23	10,11.3	15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11			2	
QPKPEJ	GlobalFiler™					
	15,17.3	20,23	10,11.3	15,15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8,[9.3]	8,12
	14,19	11			2	
QT82L2	PowerPlex® Fusion					
	15,17.3	20,23	10,11.3	15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24	9,13	10,11		6,8	8,12
	14,19	11				
QW7DG2	PowerPlex® Fusion 5C					
	15,17.3	20,23	10,11.3	15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24	9,13	10,11		6,8	8,12
	14,19	11				
RDM6CJ	PowerPlex® Fusion 5C					
	15,17.3	20,23	10,11.3	15,15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24	9,13	10,11		6,8	8,12
	14,19	11				

TABLE 1

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

RK92DM	GlobalFiler™					
	15,17.3	20,23	10,11.3	15,15	9,11	
	3sp 8,9	12,14,[15]	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,[15]	X,Y	10,12
	20,24			[18],25.2	6,8	8,12
	14,19	11		2		
RL6ATX	GlobalFiler™ (STRmix)					
	15,17.3	20,23	10,11.3	15,15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11		2		
RN9CAM	GlobalFiler™ (STRmix)					
	15,17.3	20,23	10,11.3	15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11		2		
T2BVTY	PowerPlex® Fusion					
	15,17.3	20,23	10,11.3	15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24	9,13	10,11		6,8	8,12
	14,19	11				
T2MW8L	GlobalFiler™ (STRmix)					
	15,16,17.3	20,23	10,11.3	15	9,11	
	3sp 8,9,11	12,14,15	13,15,16	17,18	12,13	10,11,12,13
	17	13,14	29	11,15,16,18	X,Y	10,12
	16.1,20,24			18,25.2,28.2	6,8	8,11,12
	14,17,19	11		2		
T7K9BX	PowerPlex® Fusion					
	15,17.3	20,23	10,11.3	15	9,11	
	3sp 8,9,11	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24	9,13	10,11		6,8,9.3	8,12
	14,19	11				
T7KDLZ	GlobalFiler™					
	15,17.3	20,[21],23	10,11.3	15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11		2		

TABLE 1

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

TMT8FV	GlobalFiler™					
	15,17.3	20,23	10,11.3	15,15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11		2		
TPWYNV	GlobalFiler™ (STRMIX)					
	15,17.3	20,23	10,11.3	15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11		2		
U33FQH	GlobalFiler™					
	15,[16],17.3	20,[21],23,[25]	10,11,11.3	15,[16]	9,11	
	3sp 8,[9],[11]	12,14,[15]	[13],15,16	17,[18],[20]	12,[13]	[10],[11],12,13
	[14],17,[20]	13,14	29,[30]	11,15,[16],[18]	X,[Y]	10,12
	[16.1],20,[23],24			18,25.2,[28.2]	6,8	8,[11],12
	14,[17],19	11		2		
U4W2LV	GlobalFiler™					
	15,17.3	20,23	10,11.3	15,15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11		2		
U74JKQ	GlobalFiler™					
	15,17.3	20,23	10,11.3	15,15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11		2		
UA4NEX	GlobalFiler™					
	15,17.3	20,23	10,11.3	15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11		2		
ULE64F	GlobalFiler™					
	15,17.3	20,23	10,11.3	15,15	9,11	
	3sp 8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11		2		

TABLE 1

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

UTFH3Y	GlobalFiler™						
		15,17.3	20,23	10,11.3	15	9,11	-
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17	13,14	29	11,15	X,Y	10,12
		20,24	-	-	18,25.2	6,8	8,12
		14,19	11	-	-	2	
UU94ZV	GlobalFiler™ (STRMix)						
		15,17.3	20,23	10,11.3	15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17	13,14	29	11,15	X,Y	10,12
		20,24			18,25.2	6,8	8,12
		14,19	11			2	
UVHFDQ	Identifiler® Plus						
			20,23		15	9,11	
	3sp	8,9	12,14			12,13	12,13
		17	13,14	29		X,Y	10,12
		20,24				6,8	8,12
		14,19					
UWVDC	GlobalFiler™						
		15,17.3	20,23	10,11.3	15,15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17,17	13,14	29,29	11,15	X,Y	10,12
		20,24			18,25.2	6,8	8,12
		14,19	11			2	
UWACZZ	GlobalFiler™						
		15,17.3	20,23	10,11.3	15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17	13,14	29	11,15	X,Y	10,12
		20,24			18,25.2	6,8	8,12
		14,19	11			2	
UXA8PX	PowerPlex® Fusion						
		15,17.3	20,23	10,11.3	15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17	13,14	29	11,15	X,Y	10,12
		20,24	9,13	10,11		6,8	8,12
		14,19	11				
VBC66G	GlobalFiler™						
		15,17.3	20,23	10,11.3	15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17	13,14	29	11,15	X,Y	10,12
		20,24			18,25.2	6,8	8,12
		14,19	11			2	

TABLE 1

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

VED9XP	PowerPlex® Fusion 5C (STRmix)					
	15,17.3	20,23	10,11.3	15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24	9,13	10,11		6,8	8,12
	14,19	11				
VMHFDP	GlobalFiler™					
	15,17.3	20,23	10,11.3	15,15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11			2	
VU2JKR	Investigator® 24plex					
	15,17.3	20,23	10,11.3	15,15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11				
VWPKVW	PowerPlex® Fusion					
	15,17.3	20,23	10,11.3	15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24	9,13	10,11		6,8	8,12
	14,19	11				
VXM83J	GlobalFiler™ (STRmix (sperm fraction))					
	15,17.3	20,23	10,11.3	15	9,11	
3sp	8,9,[11]	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24			18,25.2	6,8,[9.3]	8,12
	14,19	11			2	
W2WZBM	GlobalFiler™					
	15,17.3	20,23	10,11.3	15,15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11			2	
W4Y8TA	GlobalFiler™					
	15,[16],17.3	20,[21],23	10,11.3	15,15	9,11	
3sp	8,9,[11]	12,14	15,16	17,18,[20]	12,13	12,13
	17,17,[20]	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11			2	



TABLE 1

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

WE97QW	GlobalFiler™					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24			18,25.2	6,8
		14,19	11			2
WGADNE	PowerPlex® Fusion					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24	9,13	10,11		6,8
		14,19	11			
WKAMWV	GlobalFiler™					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24			18,25.2	6,8
		14,19	11			2
WM39UT	PowerPlex® Fusion 6C					
		15,17.3	20,23	10,11.3	15,15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17,17	13,14	29,29	11,15	X,Y
		20,24	9,13	10,11	18,25.2	6,8
		14,19	11	18	18	
WQKFAF	PowerPlex® Fusion 5C					
		15,17.3	20,23	10,11.3	15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17	13,14	29	11,15	X,Y
		20,24	9,13	10,11		6,8
		14,19	11			8,12
WQVHVE	PowerPlex® Fusion 5C					
		15,17.3	20,23	10,11.3	15,15	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17,17	13,14	29,29	11,15	X,Y
		20,24	9,13	10,11		6,8
		14,19	11	-	-	-
WVVTRE	PowerPlex® Fusion 5C					
		15,17.3	20,23	10,11.3	15,16	9,11
	3sp	8,9	12,14	15,16	17,18	12,13
		17,20	13,14	29,29	11,15	X,Y
		20,24	9,13	10,11		6,8
		14,19	11			8,12

TABLE 1

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

X6CRYV	PowerPlex® Fusion 5C						
		15,17.3	20,23	10,11.3	15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	10,12,13
		17,20	13,14	29	11,15	X,Y	10,12
		20,24	9,13	10,11		6,8	8,12
	14,17,19	11					
XAPD7G	PowerPlex®						
		15,17.3	20,23	10,11.3	15,15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	10,12,13
		17,17	13,14	29,29	11,15	X,Y	10,12
		20,24	9,13	10,11		6,8	8,12
	14,19	11					
XCYKBU	GlobalFiler™						
		15,17.3	20,23	10,11.3	15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17	13,14	29	11,15	X,Y	10,12
		20,24			18,25.2	6,8	8,12
	14,19	11			2		
XG6E6Q	GlobalFiler™						
		15,17.3	20,23	10,11.3	15,15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17,17	13,14	29,29	11,15	X,Y	10,12
		20,24			18,25.2	6,8	8,12
	14,19	11			2		
XMT2ZV	GlobalFiler™						
		15,17.3	20,23	10,11.3	15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17	13,14	29	11,15	X,Y	10,12
		20,24			18,25.2	6,8	8,12
	14,19	11			2		
XNTWPT	PowerPlex® Fusion 5C						
		15,17.3	20,23	10,11.3	15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17	13,14	29	11,15	X,Y	10,12
		20,24	9,13	10,11		6,8	8,12
	14,19	11					
Y3NFZP	GlobalFiler™						
		15,17.3	20,23	10,11.3	15,15	9,11	
	3sp	8,9	12,14	15,16	17,18	12,13	12,13
		17,17	13,14	29,29	11,15	X,Y	10,12
		20,24			18,25.2	6,8	8,12
	14,19	11			2		

TABLE 1

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

YBX84T	PowerPlex® Fusion					
	15,17.3	20,23	10,11.3	15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24	9,13	10,11		6,8	8,12
	14,19	11				
YEUVHE	GlobalFiler™ (STRmix)					
	15,17.3	20,23	10,11.3	15,15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	16.1,20,24			18,25.2	6,8	8,12
	14,19	11			2	
YEWHTY	PowerPlex® Fusion 5C					
	15,17.3	20,23	10,11.3	15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24	9,13	10,11		6,8	8,12
	14,19	11				
YG2A8T	GlobalFiler™					
	15,17.3	20,23	10,11.3	15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11			2	
YN4ZWQ	PowerPlex® 5C					
	15,17.3	20,23	10,11.3	15	9,11	--
3sp	8,9,[11]	12,14	15,16	17,18	12,13	[11],12,13
	17	13,14	29	11,15	X,Y	10,12
	20,[23],24	9,13	10,11	--	6,8	8,12
	14,19	11	--	--	--	
YTHTRP	GlobalFiler™ (STRmix)					
	15,17.3	20,23	10,11.3	15,15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11			2	
YV4KVE	PowerPlex® Fusion 5C					
	15,17.3	20,23	10,11.3	15,15	9,11	
3sp	8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24	9,13	10,11		6,8	8,12
	14,19	11				

TABLE 1

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

YWUCM7	GlobalFiler™					
	15,[16],17.3	20,[21],23	10,11.3	15,15	9,11	
	8,9,[11]	12,14	15,16	17,18,[20]	12,13	12,13
	17,17,[20]	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11		2		
YXVJ9D	GlobalFiler™					
	15,17.3	20,23	10,11.3	15	9,11	
	8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11		2		
Z8TYCM	GlobalFiler™					
	15,17.3	20,23	10,11.3	15,15	9,11	
	8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11		2		
ZP98CN	GlobalFiler™					
	15,17.3	20,23	10,11.3	15,15	9,11	
	8,9	12,14	15,16	17,18	12,13	12,13
	17,17	13,14	29,29	11,15	X,Y	10,12
	20,24			18,25.2	6,8	8,12
	14,19	11		2		
ZYKZ8R	PowerPlex® Fusion 5C					
	15,17.3	20,23	10,11.3	15	9,11	
	8,9	12,14	15,16	17,18	12,13	12,13
	17	13,14	29	11,15	X,Y	10,12
	20,24	9,13	10,11		6,8	8,12
	14,19	11				

TABLE 1

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

23GBBQ	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
24BW9N	GlobalFiler™ (STRmix)					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
28R4NB	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
2EUB8K	Investigator® 24plex (STRMix)					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10				
2J22BQ	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
2UJLUM	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
2X8WUR	GlobalFiler™ (STRmix v2.6.3)					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

3BME2L	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	4	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
3L9J9L	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	4	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
3RDK6A	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
	4	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
3WPHJN	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
	4	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
4DPR3K	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	4	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10,0			2,0	
4GZBX2	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	4	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
4UD3PM	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
	4	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				

TABLE 1

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

66EQGJ	PowerPlex® 21 (STRmix 2.7)					
	15,3,16	25,26		15,15	11,11	11,14
4	9,11	10,12		15,17	10,11	10,12
	17,22	14,15	29,29		X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17					
6EEK9N	PowerPlex® Fusion 6C (STRmix)					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	17		
6MQGB9	GlobalFiler™ (STRmix)					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
6PXV2N	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
6UTLAK	Investigator® 24plex QS					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10				
7FPPH6	PowerPlex® Fusion 5C					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
7HDW4M	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	NT
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	NT	NT	15,27.2	6,8	9,11
	16,17	10	NT	NT	2	

TABLE 1

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

7HXU2L	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
7LF2G9	GlobalFiler™ (STRmix)					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
7Y33FM	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
7ZP9CY	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
84JP2X	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	NA
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	NA	NA	15,27.2	6,8	9,11
	16,17	10	NA	NA	2	
89LZHD	Identifiler®					
		25,26		15,15	11,11	
4	9,11	10,12			10,11	10,12
	17,22	14,15	29,29		X,Y	10,11
	18,21				6,8	9,11
	16,17					
8GF6BE	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	



TABLE 1

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

8RBJ84	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
8RD7NH	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
8X2N9L	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
94L9MK	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
993GBK	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
99YUU7	GlobalFiler™ (STRmix)					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
9H343G	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

9KAL2D	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	4	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
9LPQV6	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	4	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
A2XWNF	PowerPlex® Fusion 6C (mRMP by Familias3)					
	15.3,16	25,26	10,15	15,15	11,11	
	4	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	17		
A394L2	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
	4	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
A6ENA2	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
	4	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
A6WB9J	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
	4	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
ACYJFC	PowerPlex® Fusion 6C (STRmix)					
	15.3,16	25,26	10,15	15	11	
	4	9,11	10,12	13,14	15,17	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	17		

TABLE 1

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

AJFZ72	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
B7PJXE	GlobalFiler™ (STRmix)					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
BCP3UH	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
BDQXJF	PowerPlex® Fusion 5C					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
BN2AT4	GlobalFiler™ (STRmix)					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
BV6EM9	PowerPlex® Fusion 6C (STRmix)					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	17		
BZ2YTD	Identifiler® Plus					
		25,26		15,15	11,11	
4	9,11	10,12			10,11	10,12
	17,22	14,15	29,29		X,Y	10,11
	18,21				6,8	9,11
	16,17					

TABLE 1

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

C4RWC2	GlobalFiler™ (STRmix)					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
CAH7LZ	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
CK64VD	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
CKJP6F	PowerPlex® Fusion 5C					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
CVH69Y	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
D3GAF9	NGM SElect					
	15,3,16	25,26	10,15	15,15		
4		10,12	13,14	15,17		10,12
	17,22	14,15	29,29	15,17	X,Y	
	18,21			15,27.2	6,8	
	16,17					
DFFMQT	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

DFLBBX	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
DWP6HX	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
DZMKNW	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
E784QE	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
EBKNWZ	GlobalFiler™ (STRmix)					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
EEPCEB	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
EGT8XE	GlobalFiler™ (STRmix v2.6.3 (for comparison to Item 2))					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

EL7T6Z	PowerPlex® Fusion 5C					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
EPLFH6	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
EQEB6D	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
ETLQE6	Identifiler®					
		25,26		15,15	11,11	
4	9,11	10,12			10,11	10,12
	17,22	14,15	29,29		X,Y	10,11
	18,21				6,8	9,11
	16,17					
EUV8NQ	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
EXHDAE	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
FV9RVD	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

G2PMB8	GlobalFiler™					
		15.3,16	25,26	10,15	15,15	11,11
4		9,11	10,12	13,14	15,17	10,11 10,12
		17,22	14,15	29,29	15,17	X,Y 10,11
		18,21			15,27.2	6,8 9,11
		16,17	10			2
GCV696	Identifiler® Plus					
			25,26		15	11
4		9,11	10,12			10,11 10,12
		17,22	14,15	29		X,Y 10,11
		18,21				6,8 9,11
		16,17				
GG7HQ4	GlobalFiler™					
		15.3,16	25,26	10,15	15,15	11,11
4		9,11	10,12	13,14	15,17	10,11 10,12
		17,22	14,15	29,29	15,17	X,Y 10,11
		18,21			15,27.2	6,8 9,11
		16,17	10			2
GRJK9V	PowerPlex® Fusion					
		15.3,16	25,26	10,15	15	11
4		9,11	10,12	13,14	15,17	10,11 10,12
		17,22	14,15	29	15,17	X,Y 10,11
		18,21	10,15	10,16		6,8 9,11
		16,17	10			
GTKFV8	GlobalFiler™					
		15.3,16	25,26	10,15	15,15	11,11
4		9,11	10,12	13,14	15,17	10,11 10,12
		17,22	14,15	29,29	15,17	X,Y 10,11
		18,21			15,27.2	6,8 9,11
		16,17	10			2
H2AGRB	GlobalFiler™					
		15.3,16	25,26	10,15	15,15	11,11
4		9,11	10,12	13,14	15,17	10,11 10,12
		17,22	14,15	29,29	15,17	X,Y 10,11
		18,21			15,27.2	6,8 9,11
		16,17	10			2
HC7MKA	PowerPlex® Fusion					
		15.3,16	25,26	10,15	15	11
4		9,11	10,12	13,14	15,17	10,11 10,12
		17,22	14,15	29	15,17	X,Y 10,11
		18,21	10,15	10,16		6,8 9,11
		16,17	10			

TABLE 1

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

HVHG9A	PowerPlex® Fusion					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
J66UR7	GlobalFiler™ (STRmix)					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
J9KADQ	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
JAEV93	PowerPlex® Fusion 6C (GeneMapper ID-X 1.4)					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	17		
JF4DKT	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
JH86ER	PowerPlex® ESI FAST					
	15,3,16	25,26	10,15	15,15		
4		10,12	13,14	15,17		10,12
	17,22	14,15	29,29	15,17	X,Y	
	18,21				6,8	
	16,17					
K8P2P8	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	



TABLE 1

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

KCJ3P2	Identifiler® Plus					
		25,26		15	11	
4		9,11	10,12		10,11	10,12
		17,22	14,15	29	X,Y	10,11
		18,21			6,8	9,11
		16,17				
KP4HRZ	PowerPlex® 5C (BulletProof)					
		15.3,16	25,26	10,15	15,15	11,11
4		9,11	10,12	13,14	15,17	10,11
		17,22	14,15	29,29	15,17	X,Y
		18,21	10,15	10,16		6,8
		16,17	10			9,11
LCWTBQ	GlobalFiler™					
		15.3,16	25,26	10,15	15,15	11,11
4		9,11	10,12	13,14	15,17	10,11
		17,22	14,15	29,29	15,17	X,Y
		18,21			15,27.2	6,8
		16,17	10			9,11
					2	
LFYP37	PowerPlex® Fusion					
		15.3,16	25,26	10,15	15	11
4		9,11	10,12	13,14	15,17	10,11
		17,22	14,15	29	15,17	X,Y
		18,21	10,15	10,16		6,8
		16,17	10			9,11
M3NJMX	PowerPlex® Fusion 6C (STRmix)					
		15.3,16	25,26	10,15	15	11
4		9,11	10,12	13,14	15,17	10,11
		17,22	14,15	29	15,17	X,Y
		18,21	10,15	10,16	15,27.2	6,8
		16,17	10	18	17	9,11
M6MHDB	GlobalFiler™					
		15.3,16	25,26	10,15	15,15	11,11
4		9,11	10,12	13,14	15,17	10,11
		17,22	14,15	29,29	15,17	X,Y
		18,21	N/A	N/A	15,27.2	6,8
		16,17	10	N/A	N/A	9,11
					2	
MEHTB7	GlobalFiler™					
		15.3,16	25,26	10,15	15,15	11,11
4		9,11	10,12	13,14	15,17	10,11
		17,22	14,15	29,29	15,17	X,Y
		18,21			15,27.2	6,8
		16,17	10			9,11
					2	

TABLE 1

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

MFCJEZ	PowerPlex® Fusion 6C					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	17		
MP34KX	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
MPE2P3	GlobalFiler™ (STRmix)					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
MV3NHM	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
MV7BY2	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
N2J8VG	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
PAU3VL	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

PH4UXP	GlobalFiler™ (STRmix)					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
PRWZZ3	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
Q9ZU73	PowerPlex® Fusion					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
QCLHNU	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
QEQ4G2	PowerPlex® Fusion					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
QJLXE3	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
QPKPEJ	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

QQEBAV	PowerPlex® Fusion, Applied Biosystems Verifiler Plus (SoftGenetics Genemarker HID 2.9.5)					
	15.3,16	25,26	10,15	15	11	11,14
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10			2	
QT82L2	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
QW7DG2	PowerPlex® Fusion 5C					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
RDM6CJ	PowerPlex® Fusion 5C					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
RK92DM	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
RL6ATX	GlobalFiler™ (STRmix)					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
RN9CAM	GlobalFiler™ (STRmix)					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

T2BVTY	PowerPlex® Fusion					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
T2MW8L	GlobalFiler™ (STRmix)					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
T7K9BX	PowerPlex® Fusion					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
T7KDLZ	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
TMT8FV	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
TPWYNV	GlobalFiler™ (STRMIX)					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
U33FQH	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

U4W2LV	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
U74JKQ	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
UA4NEX	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
ULE64F	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
UTFH3Y	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	-
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	-	-	15,27.2	6,8	9,11
	16,17	10	-	-	2	
UU94ZV	GlobalFiler™ (STRMix)					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
UVHFDQ	Identifiler® Plus					
		25,26		15	11	
4	9,11	10,12			10,11	10,12
	17,22	14,15	29		X,Y	10,11
	18,21				6,8	9,11
	16,17					

TABLE 1

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

UWDKC	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
UWACZZ	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
UXA8PX	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
VBC66G	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
VED9XP	PowerPlex® Fusion 5C					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
VMHFDP	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
VU2JKR	Investigator® 24plex					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10				

TABLE 1

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

VW9XRX	PowerPlex® Fusion 6C (STRmix)					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	17		
VWPVKW	PowerPlex® Fusion					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
VXM83J	GlobalFiler™ (STRmix)					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
W2WZBM	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
W4Y8TA	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
WE97QW	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
WGADNE	PowerPlex® Fusion					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				



TABLE 1

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

WKAMWV	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
	4	9,11	10,12	13,14	15,17	10,11
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
WM39UT	PowerPlex® Fusion 6C					
	15.3,16	25,26	10,15	15,15	11,11	
	4	9,11	10,12	13,14	15,17	10,11
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	17		
WQKFAF	PowerPlex® Fusion 5C					
	15.3,16	25,26	10,15	15	11	
	4	9,11	10,12	13,14	15,17	10,11
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
WQVHVE	PowerPlex® Fusion 5C					
	15.3,16	25,26	10,15	15,15	11,11	
	4	9,11	10,12	13,14	15,17	10,11
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10	-	-	-	
WVVTRE	PowerPlex® Fusion 5C					
	15.3,16	25,26	10,15	15,15	11,11	
	4	9,11	10,12	13,14	15,17	10,11
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
X6CRYV	PowerPlex® Fusion 5C					
	15.3,16	25,26	10,15	15	11	
	4	9,11	10,12	13,14	15,17	10,11
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
XAPD7G	PowerPlex®					
	15.3,16	25,26	10,15	15,15	11,11	
	4	9,11	10,12	13,14	15,17	10,11
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				

TABLE 1

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

XCYKBU	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
XG6E6Q	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
XMT2ZV	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
XNTWPT	PowerPlex® Fusion 5C					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
Y3NFZP	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
YBX84T	PowerPlex® Fusion					
	15.3,16	25,26	10,15	15	11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
YEUVHE	GlobalFiler™ (STRmix)					
	15.3,16	25,26	10,15	15,15	11,11	
	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

YEWHYT	PowerPlex® Fusion 5C					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
YG2A8T	GlobalFiler™					
	15,3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
YKNT9Q	PowerPlex® Fusion 6C (STRmix)					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16	15,27.2	6,8	9,11
	16,17	10	18	17		
YN4ZWQ	PowerPlex® 5C					
	15,3,16	25,26	10,15	15	11	--
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16	--	6,8	9,11
	16,17	10	--	--	--	
YTHTRP	GlobalFiler™ (STRmix)					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
YV4KVE	PowerPlex® Fusion 5C					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				
YWUCM7	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

YXVJ9D	GlobalFiler™					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
Z8TYCM	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
ZC97ZM	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
ZP98CN	GlobalFiler™					
	15.3,16	25,26	10,15	15,15	11,11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	
ZYKZ8R	PowerPlex® Fusion 5C					
	15.3,16	25,26	10,15	15	11	
4	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29	15,17	X,Y	10,11
	18,21	10,15	10,16		6,8	9,11
	16,17	10				

TABLE 1

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

Item 4e - STR Results

PMLMH4	GlobalFiler™					
	15,3,16	25,26	10,15	15,15	11,11	
4e	9,11	10,12	13,14	15,17	10,11	10,12
	17,22	14,15	29,29	15,17	X,Y	10,11
	18,21			15,27.2	6,8	9,11
	16,17	10			2	

TABLE 1

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

PMLMH4 GlobalFiler™

4sp


# YSTR Amplification Kit(s) & Results

TABLE 2

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	Y GATA H4

## Item 1 - YSTR Results

AJFZ72	Yfiler™ Plus								
1	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA		NA	NA	NA	NA		NA
DZMKNW	Yfiler™ Plus								
1									
YN4ZWQ	PowerPlex® Y 23								
1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
ZC97ZM	Yfiler™ Plus								
1	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.
	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.	neg.
	neg.	neg.		neg.	neg.	neg.	neg.		neg.

TABLE 2

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	Y GATA H4
<b>Item 2 - YSTR Results</b>									
28R4NB	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
2EUB8K	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
2J22BQ	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
3RDK6A	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
3WPHJN	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
4GZBX2	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
4UD3PM	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
6PXV2N	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
7HDW4M	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12	NT	18	17	16	23	NT	12
7LF2G9	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
7ZP9CY	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
84JP2X	Yfiler™								
	NA	15	11,14	13	29	24	10	11	13
2	14	11	12	20	NA	17	16	NA	NA
	NA	NA	NA	NA	NA	NA	23	NA	12



TABLE 2

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	Y GATA H4
<b>Item 2 - YSTR Results</b>									
8GF6BE	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
8RBJ84	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
8X2N9L	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
94L9MK	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
993GBK	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
99YUU7	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
9KAL2D	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
9LPQV6	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
A2XWNF	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
A394L2	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
A6ENA2	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
A6WB9J	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12

TABLE 2

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	Y GATA H4
<b>Item 2 - YSTR Results</b>									
AJFZ72	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
BCP3UH	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
BN2AT4	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
BV6EM9	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
C4RWC2	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
CAH7LZ	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
CK64VD	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
CVH69Y	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
D3GAF9	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
DFFMQT	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
DFLBBX	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
DWP6HX	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12

TABLE 2

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	Y GATA H4
<b>Item 2 - YSTR Results</b>									
DZMKNW	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
E784QE	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
EBKNWZ	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
EGT8XE	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
EPLFH6	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
EUV8NQ	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
EXHDAE	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
FV9RVD	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
GCV696	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
HC7MKA	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
HVHG9A	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
J9KADQ	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12

TABLE 2

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	Y GATA H4
<b>Item 2 - YSTR Results</b>									
JAEV93	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
JF4DKT	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
K8P2P8	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
KCJ3P2	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
KP4HRZ	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
LCWTBQ	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
M6MHDB	Yfiler™								
	N/A	15	11,14	13	29	24	10	11	13
2	14	11	12	20	N/A	17	16	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12
MFCJEZ	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
MV3NHM	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
N2J8VG	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
PH4UXP	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
PRWZZ3	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12

TABLE 2

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	Y GATA H4
<b>Item 2 - YSTR Results</b>									
Q9ZU73	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
QJLXE3	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
QPKPEJ	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
QQEBAV	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
QW7DG2	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
RDM6CJ	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
RN9CAM	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
T2MW8L	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
T7KDLZ	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
UA4NEX	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
ULE64F	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
UTFH3Y	Yfiler™								
	-	15	11,14	13	29	24	10	11	13
2	14	11	12	20	-	17	16	-	-
	-	-	-	-	-	-	23	-	12

TABLE 2

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	Y GATA H4
<b>Item 2 - YSTR Results</b>									
UVHFDQ	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
UWDKC	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
UWACZZ	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
VW9XRX	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
VWPKW	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
VXM83J	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
W4Y8TA	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
WE97QW	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
WKAMWV	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
WQVHVE	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
XCYKBU	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
XMT2ZV	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12

TABLE 2

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	Y GATA H4
<b>Item 2 - YSTR Results</b>									
YBX84T	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
YEUVHE	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
YEWHTY	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
YG2A8T	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
YKNT9Q	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
YN4ZWQ	PowerPlex® Y 23								
	--	15	11,14	13	29	24	10	11	13
2	14	11	12	20	---	17	16	--	26
	--	12	12	18	17	--	23	10	12
YTHTRP	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
YWUCM7	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12
YXVJ9D	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
ZC97ZM	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
2	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
ZYKZ8R	Yfiler™								
		15	11,14	13	29	24	10	11	13
2	14	11	12	20		17	16		
							23		12

TABLE 2

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	Y GATA H4

Item 3 - YSTR Results

A2XWNF	PowerPlex® Y 23								
		16	14,15	13	31	24	11	11	13
3	15	10	12	21		15	17		30
		12	12	18	18		23	10	11
QQEBAV	PowerPlex® Y 23								
		16	14,15	13	31	24	11	11	13
3	15	10	12	21		15	17		30
		12	12	18	18		23	10	11
VW9XRX	PowerPlex® Y 23								
		16	14,15	13	31	24	11	11	13
3	15	10	12	21		15	17		30
		12	12	18	18		23	10	11
YKNT9Q	PowerPlex® Y 23								
		16	14,15	13	31	24	11	11	13
3	15	10	12	21		15	17		30
		12	12	18	18		23	10	11
ZC97ZM	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11



TABLE 2

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	Y GATA H4
<b>Item 3e - YSTR Results</b>									
28R4NB	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		11
							23		
2EUB8K	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		11
							23		
2J22BQ	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
3RDK6A	Yfiler™								
3e									
3WPHJN	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		11
							23		
4GZBX2	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		11
							23		
4UD3PM	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		11
							23		
6PXV2N	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
7HDW4M	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12	NT	18	18	20	23	NT	11
7LF2G9	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
7ZP9CY	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		11
							23		
84JP2X	Yfiler™								
	NA	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	NA	15	17	NA	NA
	NA	NA	NA	NA	NA	NA	23	NA	11

TABLE 2

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	Y GATA H4
<b>Item 3e - YSTR Results</b>									
8GF6BE	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		11
							23		
8RBJ84	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		11
							23		
8X2N9L	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
94L9MK	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
993GBK	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
99YUU7	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
9KAL2D	Yfiler™ Plus								
3e									
9LPQV6	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
A394L2	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		11
							23		
A6ENA2	PowerPlex® Y 23								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		30
		12	12	18	18		23	10	11
A6WB9J	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
AJFZ72	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11

TABLE 2

WebCode	Amplification Kit								
	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	Y GATA H4
<b>Item 3e - YSTR Results</b>									
BCP3UH	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
BN2AT4	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
BV6EM9	PowerPlex® Y 23								
3e									
C4RWC2	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
CAH7LZ	PowerPlex® Y 23								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		30
		12	12	18	18		23	10	11
CK64VD	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
CVH69Y	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
D3GAF9	PowerPlex® Y 23								
		[16]	14,15	[13]	[31]	24	11	11	13
3e	[15]	10	F	21		15	17		[28],[29],30
		12	12	18	18		[22],23	10	[11]
DFFMQT	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		
							23		11
DFLBBX	Yfiler™ Plus								
3e									
DWP6HX	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		
							23		11
DZMKNW	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11

TABLE 2

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	Y GATA H4
<b>Item 3e - YSTR Results</b>									
E784QE	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
EBKNWZ	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
EPLFH6	Yfiler™ Plus								
3e									
EUV8NQ	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		
							23		11
EXHDAE	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
FV9RVD	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
GCV696	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		
							23		11
HC7MKA	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		
							23		11
HVHG9A	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
J9KADQ	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
JAEV93	PowerPlex® Y 23								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		30
		12	12	18	18		23	10	11
JF4DKT	PowerPlex® Y 23								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		30
		12	12	18	18		23	10	11

TABLE 2

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	Y GATA H4
<b>Item 3e - YSTR Results</b>									
K8P2P8	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
KCJ3P2	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		
							23		11
KP4HRZ	PowerPlex® Y 23								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		30
		12	12	18	18		23	10	11
LCWTBQ	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
M6MHDB	Yfiler™								
	N/A	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	N/A	15	17	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	11
MFCJEZ	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
MV3NHM	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
N2J8VG	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		
							23		11
PH4UXP	Yfiler™ Plus								
3e									
PRWZZ3	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
Q9ZU73	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		
							23		11
QJLXE3	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11

TABLE 2

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	Y GATA H4
<b>Item 3e - YSTR Results</b>									
QPKPEJ	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
QW7DG2	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		
							23		11
RDM6CJ	PowerPlex® Y 23								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		30
		12	12	18	18		23	10	11
RN9CAM	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
T2MW8L	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
T7KDLZ	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
UA4NEX	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
ULE64F	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
UTFH3Y	Yfiler™								
	-	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	-	15	17	-	-
	-	-	-	-	-	-	23	-	11
UVHFDQ	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		
							23		11
UVDKC	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		
							23		11
UWACZZ	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11

TABLE 2

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	Y GATA H4
<b>Item 3e - YSTR Results</b>									
WVPVKW	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
VXM83J	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
W4Y8TA	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		
							23		11
WE97QW	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
WKAMWV	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		
							23		11
WQVHVE	PowerPlex® Y 23								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		-	17		30
		12	12	18	18		23	10	11
XCYKBU	Yfiler™								
		16	14,15	13	31	24	11	11	13
3e	15	10	12	21		15	17		
							23		11
XMT2ZV	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
YBX84T	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
YEUVHE	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
YEWHTY	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
YG2A8T	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3e	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11

TABLE 2

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	Y GATA H4

Item 3e - YSTR Results

YN4ZWQ	PowerPlex® Y 23								
3e	--	--	--	--	--	--	--	--	--
YTHTRP	Yfiler™ Plus								
3e									
YWUCM7	Yfiler™								
3e		16	14,15	13	31	24	11	11	13
	15	10	12	21		15	17		
							23		11
YXVJ9D	PowerPlex® Y 23								
3e									
ZYKZ8R	Yfiler™								
3e		16	14,15	13	31	24	11	11	13
	15	10	12	21		15	17		
							23		11



TABLE 2

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	Y GATA H4
<b>Item 3sp - YSTR Results</b>									
28R4NB	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		11
							23		
2EUB8K	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		11
							23		
2J22BQ	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
3RDK6A	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		11
							23		
3WPHJN	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		11
							23		
4GZBX2	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		11
							23		
4UD3PM	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		11
							23		
6PXV2N	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
7HDW4M	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12	NT	18	18	20	23	NT	11
7LF2G9	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
7ZP9CY	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		11
							23		
84JP2X	Yfiler™								
	NA	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	NA	15	17	NA	NA
	NA	NA	NA	NA	NA	NA	23	NA	11

TABLE 2

WebCode	Amplification Kit								
	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	Y GATA H4
<b>Item 3sp - YSTR Results</b>									
8GF6BE	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		11
							23		
8RBJ84	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		11
							23		
8X2N9L	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
94L9MK	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
993GBK	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
99YUU7	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
9KAL2D	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
9LPQV6	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
A394L2	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		11
							23		
A6ENA2	PowerPlex® Y 23								
3sp									
A6WB9J	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
AJFZ72	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11

TABLE 2

WebCode	Amplification Kit								
	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	Y GATA H4
<b>Item 3sp - YSTR Results</b>									
BCP3UH	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
BN2AT4	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
BV6EM9	PowerPlex® Y 23								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		30
		12	12	18	18		23	10	11
C4RWC2	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
CAH7LZ	PowerPlex® Y 23								
3sp									
CK64VD	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
CVH69Y	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
D3GAF9	PowerPlex® Y 23								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		[29],30
		12	12	18	18		23	10	11
DFFMQT	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		
							23		11
DFLBBX	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
DWP6HX	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		
							23		11
DZMKNW	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11

TABLE 2

WebCode	Amplification Kit								
	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	Y GATA H4
<b>Item 3sp - YSTR Results</b>									
E784QE	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
EBKNWZ	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
EPLFH6	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
EUV8NQ	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		
							23		11
EXHDAE	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
FV9RVD	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
GCV696	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		
							23		11
HC7MKA	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		
							23		11
HVHG9A	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
J9KADQ	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
JAEV93	PowerPlex® Y 23								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		30
		12	12	18	18		23	10	11
JF4DKT	PowerPlex® Y 23								
3sp									

TABLE 2

WebCode	Amplification Kit								
	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	Y GATA H4
<b>Item 3sp - YSTR Results</b>									
K8P2P8	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
KCJ3P2	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		
							23		11
KP4HRZ	PowerPlex® Y 23								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		30
		12	12	18	18		23	10	11
LCWTBQ	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
M6MHDB	Yfiler™								
	N/A	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	N/A	15	17	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	11
MFCJEZ	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
MV3NHM	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
N2J8VG	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		
							23		11
PH4UXP	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
PRWZZ3	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
Q9ZU73	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		
							23		11
QJLXE3	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11

TABLE 2

WebCode	Amplification Kit								
	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	Y GATA H4
<b>Item 3sp - YSTR Results</b>									
QPKPEJ	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
QW7DG2	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		
							23		11
RDM6CJ	PowerPlex® Y 23								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		30
		12	12	18	18		23	10	11
RN9CAM	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
T2MW8L	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
T7KDLZ	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
UA4NEX	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
ULE64F	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
UTFH3Y	Yfiler™								
	-	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	-	15	17	-	-
	-	-	-	-	-	-	23	-	11
UVHFDQ	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		
							23		11
UVWDKC	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		
							23		11
UWACZZ	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11

TABLE 2

WebCode	Amplification Kit								
	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	Y GATA H4
<b>Item 3sp - YSTR Results</b>									
WVPVKW	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
VXM83J	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
W4Y8TA	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		
							23		11
WE97QW	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
WKAMWV	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		
							23		11
WQVHVE	PowerPlex® Y 23								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		30
		12	12	18	18		23	10	11
XCYKBU	Yfiler™								
		16	14,15	13	31	24	11	11	13
3sp	15	10	12	21		15	17		
							23		11
XMT2ZV	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
YBX84T	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
YEUVHE	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
YEWHYT	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11
YG2A8T	Yfiler™ Plus								
	37,39	16	14,15	13	31	24	11	11	13
3sp	15	10	12	21	32	15	17	10	30
	40	12		18	18	20	23		11

TABLE 2

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	Y GATA H4	
<b>Item 3sp - YSTR Results</b>										
YN4ZWQ	PowerPlex® Y 23									
	--	16	14,15	13	31	24	11	11	13	
3sp	15	10	12	21	--	15	17	--	30	
	--	12	12	18	18	--	23	10	11	
YTHTRP	Yfiler™ Plus									
	37,39	16	14,15	13	31	24	11	11	13	
3sp	15	10	12	21	32	15	17	10	30	
	40	12		18	18	20	23		11	
YWUCM7	Yfiler™									
		16	14,15	13	31	24	11	11	13	
3sp	15	10	12	21		15	17			
							23		11	
YXVJ9D	PowerPlex® Y 23									
		16	14,15	13	31	24	11	11	13	
3sp	15	10	12	21		15	17		30	
		12	12	18	18		23	10	11	
ZYKZ8R	Yfiler™									
		16	14,15	13	31	24	11	11	13	
3sp	15	10	12	21		15	17			
							23		11	



TABLE 2

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	Y GATA H4
<b>Item 4 - YSTR Results</b>									
28R4NB	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
2EUB8K	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
2J22BQ	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
3RDK6A	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
3WPHJN	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
4GZBX2	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
4UD3PM	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
6PXV2N	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
7HDW4M	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12	NT	18	17	16	23	NT	12
7LF2G9	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
7ZP9CY	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
84JP2X	Yfiler™								
	NA	15	11,14	13	29	24	10	11	13
4	14	11	12	20	NA	17	16	NA	NA
	NA	NA	NA	NA	NA	NA	23	NA	12

TABLE 2

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	Y GATA H4
<b>Item 4 - YSTR Results</b>									
8GF6BE	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
8RBJ84	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
8X2N9L	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
94L9MK	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
993GBK	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
99YUU7	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
9KAL2D	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
9LPQV6	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
A2XWNF	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
A394L2	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
A6WB9J	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
AJFZ72	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12

TABLE 2

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	Y GATA H4
<b>Item 4 - YSTR Results</b>									
BCP3UH	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
BN2AT4	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
BV6EM9	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
C4RWC2	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
CK64VD	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
CVH69Y	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
D3GAF9	Yfiler™ Plus								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
DFFMQT	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		26
							23		12
DFLBBX	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
DWP6HX	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		26
							23		12
DZMKNW	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
E784QE	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12

TABLE 2

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	Y GATA H4
<b>Item 4 - YSTR Results</b>									
EBKNWZ	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
EGT8XE	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
EPLFH6	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
EUV8NQ	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
EXHDAE	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
FV9RVD	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
GCV696	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
HC7MKA	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
HVHG9A	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
J9KADQ	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
JAEV93	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
JH86ER	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12

TABLE 2

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	Y GATA H4
<b>Item 4 - YSTR Results</b>									
K8P2P8	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
KCJ3P2	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
KP4HRZ	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
LCWTBQ	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
M6MHDB	Yfiler™								
	N/A	15	11,14	13	29	24	10	11	13
4	14	11	12	20	N/A	17	16	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12
MFCJEZ	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
MV3NHM	Yfiler™ Plus								
	18	11	16	13	29	23	12	17	15
4	11	11	20	43	14	17	16	11,14	32
	13	12	26	36,38	12		10		24
N2J8VG	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
PH4UXP	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
PRWZZ3	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
Q9ZU73	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
QJLXE3	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12

TABLE 2

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	Y GATA H4
<b>Item 4 - YSTR Results</b>									
QPKPEJ	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
QQEBAV	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
QW7DG2	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
RDM6CJ	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
RN9CAM	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
T2MW8L	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
T7KDLZ	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
UA4NEX	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
ULE64F	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
UTFH3Y	Yfiler™								
	-	15	11,14	13	29	24	10	11	13
4	14	11	12	20	-	17	16	-	-
	-	-	-	-	-	-	23	-	12
UVHFDQ	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
UVDKC	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12

TABLE 2

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	Y GATA H4
<b>Item 4 - YSTR Results</b>									
UWACZZ	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
VW9RXR	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
WVPVKW	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
VXM83J	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
W4Y8TA	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
WE97QW	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
WKAMWV	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
WQVHVE	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
XCYKBU	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
XMT2ZV	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
YBX84T	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
YEUVHE	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12

TABLE 2

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	Y GATA H4

Item 4 - YSTR Results

YEWHYT	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
YG2A8T	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
YKNT9Q	PowerPlex® Y 23								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		26
		12	12	18	17		23	10	12
YN4ZWQ	PowerPlex® Y 23								
	--	15	11,14	13	29	24	10	11	13
4	14	11	12	20	--	17	16	--	26
	--	12	12	18	17	--	23	10	12
YTHTRP	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
YWUCM7	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12
ZC97ZM	Yfiler™ Plus								
	36,38	15	11,14	13	29	24	10	11	13
4	14	11	12	20	32	17	16	11	26
	43	12		18	17	16	23		12
ZYKZ8R	Yfiler™								
		15	11,14	13	29	24	10	11	13
4	14	11	12	20		17	16		
							23		12



# Additional DNA Results

TABLE 3

Locus	WebCode	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4	Item 4e	Item 4sp
-------	---------	--------	--------	--------	---------	----------	--------	---------	----------

No additional DNA results were reported.

# 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 4

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
23GBBQ	Yes	No	No	Yes	7HDW4M	Yes	No	No	Yes
24BW9N	Yes	No	Inc	Yes	7HXU2L	Yes	No	No	Yes
28R4NB	Yes	No	No	Yes	7LF2G9	Yes	No	No	Yes
2EUB8K	Yes	No	No	Yes	7Y33FM	Yes	No	No	Yes
2J22BQ	Yes	No	No	Yes	7ZP9CY	Yes	No	No	Yes
2UJLUM	Yes	No	No	Yes	84JP2X	Yes	No	No	Yes
2X8WUR	Yes	No	No	Yes	89LZHD	Yes	No	No	Yes
3BME2L	Yes	No	No	Yes	8GF6BE	Yes	No	No	Yes
3L9J9L	Yes	No	No	Yes	8RBJ84	Yes	No	No	Yes
3RDK6A	Yes	No	No	Yes	8RD7NH	Yes	No	No	Yes
3WPHJN	Yes	No	No	Yes	8X2N9L	Yes	No	No	Yes
4DPR3K	Yes	No	No	Yes	94L9MK	Yes	No	No	Yes
4GZBX2	Yes	No	No	Yes	993GBK	Yes	No	No	Yes
4UD3PM	Yes	No	No	Yes	99YUU7	Yes	No	No	Yes
66EQGJ	Yes	No	No	Yes	9H343G	Yes	No	No	Yes
6EEK9N	Yes	No	No	Yes	9KAL2D	Yes	No	No	Yes
6MQGB9	Yes	No	No	Yes	9LPQV6	Yes	No	No	Yes
6PXV2N	Yes	No	No	Yes	A2XWNF	Yes	No	No	Yes
6UTLAK	Yes	No	No	Yes	A394L2	Yes	No	No	Yes
7FPPH6	Yes	No	No	Yes	A6ENA2	Yes	No	No	Yes

TABLE 4

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
A6WB9J	Yes	No	No	Yes	EEPCEB	Yes	No	No	Yes
ACYJFC	Yes	No	No	Yes	EGT8XE	Yes	No	No	Yes
AJFZ72					EL7T6Z	Yes	No	No	Yes
B7PJXE	Yes	No	No	Yes	EPLFH6	Yes	No	No	Yes
BCP3UH	Yes	No	No	Yes	EQEB6D	Yes	No	No	Yes
BDQXJF	Yes	No	No	Yes	ETLQE6	Yes	No	No	Yes
BN2AT4	Yes	No	No	Yes	EUV8NQ	Yes	No	No	Yes
BV6EM9	Yes	No	No	Yes	EXHDAE	Yes	No	No	Yes
BZ2YTD	Yes	No	No	Yes	FV9RVD	Yes	No	No	Yes
C4RWC2	Yes	No	No	Yes	G2PMB8	Yes	No	No	Yes
CAH7LZ	Yes	No	No	Yes	GCV696	Yes	No	No	Yes
CK64VD	Yes	No	No	Yes	GG7HQ4	Yes	No	No	Yes
CKJP6F	Yes	No	No	Yes	GRJK9V	Yes	No	No	Yes
CVH69Y	Yes	No	No	Yes	GTKFV8	Yes	No	No	Yes
D3GAF9	Yes	No	No	Yes	H2AGRB	Yes	No	No	Yes
DFFMQT	Yes	No	No	Yes	HC7MKA	Yes	No	No	Yes
DFLBBX	Yes	No	No	Yes	HVHG9A	Yes	No	No	Yes
DWP6HX	Yes	No	No	Yes	J66UR7	Yes	No	No	Yes
DZMKNW	Yes	No	No	Yes	J9KADQ	Yes	No	No	Yes
E784QE	Yes	No	No	Yes	JAEV93	Yes	No	No	Yes
EBKNWZ	Yes	No	No	Yes	JF4DKT	Yes	No	No	Yes

TABLE 4

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
JH86ER	Yes	No	No	Yes	QEQ4G2	Yes	No	No	Yes
K8P2P8	Yes	No	No	Yes	QJLXE3	Yes	No	No	Yes
KCJ3P2	Yes	No	No	Yes	QPKPEJ	Yes	No	No	Yes
KP4HRZ	Yes	No	No	Yes	QQEBAV	Yes	No	No	Yes
LCWTBQ	Yes	No	No	Yes	QT82L2	Yes	No	No	Yes
LFYP37	Yes	No	No	Yes	QW7DG2	Yes	No	No	Yes
M3NJMX	Yes	No	No	Yes	RDM6CJ	Yes	No	No	Yes
M6MHDB	Yes	No	No	Yes	RK92DM	Yes	No	No	Yes
MEHTB7	Yes	No	No	Yes	RL6ATX	Yes	No	No	Yes
MFCJEZ	Yes	No	No	Yes	RN9CAM	Yes	No	No	Yes
MP34KX	Yes	No	No	Yes	T2BVTY	Yes	No	No	Yes
MPE2P3	Yes	No	No	Yes	T2MW8L	Yes	No	No	Yes
MV3NHM	Yes	No	No	Yes	T7K9BX	Yes	No	No	Yes
MV7BY2	Yes	No	No	Yes	T7KDLZ	Yes	No	No	Yes
N2J8VG	Yes	No	No	Yes	TMT8FV	Yes	No	No	Yes
PAU3VL	Yes	No	No	Yes	TPWYNV	Yes	No	No	Yes
PH4UXP	Yes	No	No	Yes	U33FQH	Yes	No	No	Yes
PMLMH4	Yes	No	No	Yes	U4W2LV	Yes	No	No	Yes
PRWZZ3	Yes	No	No	Yes	U74JKQ	Yes	No	No	Yes
Q9ZU73	Yes	No	No	Yes	UA4NEX	Yes	No	No	Yes
QCLHNU	Yes	No	No	Yes	ULE64F	Yes	No	No	Yes

TABLE 4

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
UTFH3Y	Yes	No	No	Yes	WVWRE	Yes	No	No	Yes
UU94ZV	Yes	No	No	Yes	X6CRYV	Yes	No	No	Yes
UVHFDQ	Yes	No	No	Yes	XAPD7G	Yes	No	No	Yes
UWDKC	Yes	No	No	Yes	XCYKBU	Yes	No	No	Yes
UWACZZ	Yes	No	No	Yes	XG6E6Q	Yes	No	No	Yes
UXA8PX	Yes	No	No	Yes	XMT2ZV	Yes	No	No	Yes
VBC66G	Yes	No	No	Yes	XNTWPT	Yes	No	No	Yes
VED9XP	Yes	No	No	Yes	Y3NFZP	Yes	No	No	Yes
VMHFDP	Yes	No	No	Yes	YBX84T	Yes	No	No	Yes
VU2JKR	Yes	No	No	Yes	YEUVHE	Yes	No	No	Yes
VW9XRX	Yes	No	No	Yes	YEWHYT	Yes	No	No	Yes
VWPVKW	Yes	No	No	Yes	YG2A8T	Yes	No	No	Yes
VXM83J	Yes	No	No	Yes	YKNT9Q	Yes	No	No	Yes
W2WZBM	Yes	No	No	Yes	YN4ZWQ	Yes	No	No	Yes
W4Y8TA	Yes	No	No	Yes	YTHTRP	Yes	No	No	Yes
WE97QW	Yes	No	No	Yes	YV4KVE	Yes	No	No	Yes
WGADNE	Yes	No	No	Yes	YWUCM7	Yes	No	No	Yes
WKAMWV	Yes	No	No	Yes	YXVJ9D	Yes	No	No	Yes
WM39UT	Yes	No	No	Yes	Z8TYCM	Yes	No	No	Yes
WQKFAF	Yes	No	No	Yes	ZC97ZM	Yes	No	No	Yes
WQVHVE	Yes	No	No	Yes	ZP98CN	Yes	No	No	Yes

TABLE 4

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
ZYKZ8R	Yes	No	No	Yes					

<b>DNA Interpretation</b>					
<b>Response Summary</b>	<b>Participants reporting DNA results: 167</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>166</b>	<b>0</b>	<b>0</b>	<b>166</b>
No		<b>0</b>	<b>166</b>	<b>165</b>	<b>0</b>
Inc		<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>
No Interpretation		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
No Response		<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>

Participants analyzing DNA for database purposes only: 0

# Additional Comments

## TABLE 5

WebCode	Additional Comments
24BW9N	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
2J22BQ	NR= No Results. STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X.
3RDK6A	Y-STR analysis was not performed on Item 1 and Item 3E because no male DNA was detected using Quantifiler Trio.
4GZBX2	[] - indicates minor alleles and alleles between analytical and stochastic thresholds
7HDW4M	NR = no results. NT = not tested.
84JP2X	[ ] - indicates minor allele/s and alleles between analytical and stochastic thresholds. NA - indicates not applicable.
8GF6BE	Extraction: Item 1 and Item 2 were extracted using chelex extraction method, Item 3 was extracted using differential extraction method and Item 4 was extracted using TECAN FREEDOM EVO extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification kit on Real-Time Polymerase Chain Reaction QuantStudio 5 System. Amplification: Item 1, Item 2, 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 analysis and all gave intended results.
8RBJ84	Y-STR analysis was not performed on item 1 because no male DNA was detected using Quantifiler Trio.
8RD7NH	NR = No DNA Result
993GBK	NR = no results. STRmix analysis was conducted on Item3e. Data reported out is from analysis using GeneMapper ID-X.
9LPQV6	NR = No DNA Results
A2XWNF	mRMP Item 1 = 2.22E+32. mRMP Item 2 = Item 4 = 3.80E+33. LR Item 3: Item 1 + 1 unkn vs 2 unkn = 1.01E+15 (d.o.=0.1), 9.04E+14 (d.o.=0.11). Item 2 + 1 unkn vs 2 unkn = 5.60E-23 (d.o.=0.1). Item 1 + Item 2 vs Item 1 + 1 unkn = 2.92E-36 (d.o.=0.1).
AJFZ72	DNA interpretations were not made as this was performed as a technician. NA= Not Analyzed
BCP3UH	NR = No Results
CVH69Y	Item 1 was not analyzed for YSTRs. NR = No Results
D3GAF9	[n] results - see item 3 are low level results.
DFFMQT	[ ] - indicates minor allele/s and alleles between analytical and stochastic thresholds
DZMKNW	NR = No Results
EEPCEB	NR- no DNA results. [ ]- lighter intensity allele.
EUV8NQ	[ ] - indicates minor allele/s and alleles between analytical and stochastic thresholds

TABLE 5

WebCode	Additional Comments
GCV696	Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using the Chelex extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using the Quantifiler Human DNA Quantification kit on the Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 system. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using the AmpFISTR Identifiler Plus PCR Amplification kit on the 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification 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. Electrophoresis: Electrophoresis was carried out on the Applied Biosystems 3500xl Genetic Analyzer with GeneMapper ID-X Software for Item 1, Item 2, Item 3 and Item 4 (Identifiler Plus). Electrophoresis for Y-Filer was carried out on the Applied Biosystems 3500xl Genetic Analyzer with GeneMapper ID-X Software for Item 2, Item 3 and Item 4. Quality Control: Reagent blank, positive control and negative control were carried out throughout the analysis and all gave intended results.
HVHG9A	NR=No Results. STRmix analysis was conducted on Item 3e. Data for all reported items was generated with GeneMapper ID-X.
J66UR7	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
J9KADQ	NR= No Results
KCJ3P2	Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using the Chelex extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification Kit on Applied Biosystems 7500 Real-Time PCR Systems. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Identifiler Plus PCR Amplification Kit on the Applied Biosystems GeneAmp PCR System 9700. Item 2, Item 3 and Item 4 were also amplified using the AmpFLSTR Yfiler PCR Amplification Kit on Applied Biosystems GeneAmp PCR System 9700. Electrophoresis: Electrophoresis was carried out on Applied Biosystems 3500XL Genetic Analyzer and the data were analyzed 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.
LCWTBQ	NR = no results. Y-STR analysis was not performed on item 1 (female victim known).
M6MHDB	[ ] - indicates minor allele/s and alleles between analytical and stochastic thresholds
MV3NHM	NR=No results. Item 1 was not analyzed for Y-STR analysis, female known.
N2J8VG	{ }-indicates minor alleles and alleles between analytical and stochastic thresholds
PMLMH4	A differential extraction was performed on Item 4. The sperm fraction was stopped at quant.
QPKPEJ	Item 1 not analyzed in Yfiler Plus. NR=no results
RL6ATX	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
T7KDLZ	NR=no results
TPWYNV	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.



TABLE 5

WebCode	Additional Comments
U33FQH	[] = Lighter intensity allele. NR = No DNA result.
ULE64F	NR = No results
UTFH3Y	Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using chelex extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio DNA Quantification kit on RT-PCR QuantStudio 5 System. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using GlobalFiler STR 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 was carried out on Genetic Analyzer 3500xL for Item 1, Item 2, Item 3 and Item 4. Electrophoresis of 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 incorporated throughout analysis and all gave intended results.
UVHFDQ	Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using the Chelex extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using the Quantifiler Human DNA Quantification kit on Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 System. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using the AmpFISTR Identifiler Plus PCR Amplification Kit on the 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification 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. Electrophoresis: Electrophoresis for Identifiler Plus was carried out on the Applied Biosystems 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 1, Item 2, Item 3 and Item 4. Electrophoresis for Y-Filer was carried out on the Applied Biosystem 3500xL with GeneMapper ID-X Software for Item 2, Item 3 and Item 4. Quality Control: Reagent blank, positive control and negative control were carried out throughout the analysis and all gave intended result.
UWVDC	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
WVPVW	NR = No result. STRmix analysis conducted on this test. Data analyzed with GeneMapper ID-X.
W4Y8TA	[] - indicates minor alleles and alleles between analytical and stochastic thresholds
WKAMWV	Extraction: Item 1 and Item 2 were extracted using chelex extraction method, Item 3 was extracted using differential extraction method and Item 4 was extracted using TECAN FREEDOM EVO extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification kit on Real-Time Polymerase Chain Reaction QuantStudio 5 System. Amplification: Item 1, Item 2, 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 analysis and all gave intended results.
WM39UT	ND=Not detected
XCYKBU	Extraction: Item 1 and Item 2 were extracted using chelex extraction method, Item 3 was extracted using differential extraction method and Item 4 was extracted using TECAN FREEDOM EVO extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification kit on Real-Time Polymerase Chain Reaction QuantStudio5 System. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using Global Filer 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 9700GeneAmp 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 GeneticAnalyzer 3500xL. Quality Control: Reagent blank, positive control and negative control were incorporated throughout analysis and all gave intended results
XMT2ZV	NR = No Results

TABLE 5

WebCode	Additional Comments
YBX84T	NR = No Results. The data reported out in this test is from analysis using GeneMapper ID-X. STRmix analysis was conducted on this test.
YEWHYT	NR = No Results. STRmix aided analysis. Data reported using GeneMapper ID-X analysis.
YN4ZWQ	Item-3: Unknown male is the contributor to E1 sperm fraction. Per our laboratory policy, the minor species were enclosed within brackets [ ]. Y23 data/Item-3(sp): Tall stutter peaks at DYS481's Allele-30 and DYS458's Allele-17 were not included in the table. Y23 data (Item-2): Tall stutter peak at DYS481's Allele-26 was not included in the table either.
YTHTRP	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
YWUCM7	[ ] - indicates minor allele/s and alleles between analytical and stochastic thresholds

**-End of Report-  
(Appendix may follow)**

## Test No. 21-5801: DNA-Mixture

DATA MUST BE SUBMITTED BY **March 8, 2021, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: 84RYHJ

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 the sexual assault of a female victim. The victim's claim is that she was approached by a man while walking home. After she refused his advances, he became angry and sexually assaulted her in an alleyway. She was able to fight the assailant off by scratching his face. The following day the victim went to the hospital. The victim informed the police that she had consensual sex with her boyfriend prior to the assault. Investigators are submitting a stain from the underwear (Item 3) and a stain from the shirt (Item 4) the victim was wearing during the assault. Screening has been performed on both samples with the following results: Item 3 (victim's underwear) is positive for blood and semen, and Item 4 (shirt) is positive for blood. Also collected were known blood samples from the female victim (Item 1) and the male suspect (Item 2). A known sample from the victim's boyfriend was not provided.

### Items Submitted (Sample Pack S1):

Item 1: Known blood from the female victim

Item 2: Known blood from the male suspect

Item 3: Questioned blood and semen mixture from victim's underwear (pink)

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













### Part II: 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 III: 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)