



## **DNA-Semen Test No. 20-5802**

### **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 207 participants and are compiled into the following tables:

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

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

## **Manufacturer's Information**

Each sample pack consisted of two known bloodstains on FTA Micro cards (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 (75  $\mu$ l) was created using blood from a female donor. Items 2 (75  $\mu$ l) and 4 (50  $\mu$ l) were created using blood collected 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 March 2, 2020 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	12,16	20,25	11,11	14,16	11,12	*
	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17	NM	NM	NM	NM	
2	16.3,17.3	19,24	10,11	16,17	8,12	*
	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17	2	
3-Blood	12,16	20,25	11,11	14,16	11,12	*
	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17	NM	NM	NM	NM	
3-Semen	15.3,16	22,24	13,14	17,18	12,13	*
	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18	2	
4	16.3,17.3	19,24	10,11	16,17	8,12	*
	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	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	34,37	13	16,16	13	30	23	11	11	13
	14	10	14	19	35	16	16	11	24
	38	12	12	17	17	21	21	13	11
3-Semen	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
	37	12	13	17	18	22	25	10	11
4	34,37	13	16,16	13	30	23	11	11	13
	14	10	14	19	35	16	16	11	24
	38	12	12	17	17	21	21	13	11

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

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

## **Summary Comments**

The 20-5802 DNA-Semen test is part of the DNA Sample Specific Series, where participants are advised of the body fluid(s) that made 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 collected from the same male donor. Item 3 was created using a mixture of blood from the female donor found in Item 1 and semen from a male donor whose known standard was not provided. (See Manufacturer's Information for preparation details)

Of the 207 participants that returned results, 177 reported DNA interpretations. Twenty-one participants stated that the samples were only analyzed for database purposes, five selected the "No Interpretations" option individually for all Interpretation questions, and four did not respond.

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 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. No inconsistent results were reported by these participants.

Eleven 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, five were missing alleles, and two reported allelic results that differed from the consensus. 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

22JGNH	PowerPlex® Fusion 6C					
		12,16	20,25	11,11	14,16	11,12
1		11,13	13,14	13,16	20,21	8,11
		15,18	12,14	30,31.2	11,15	X,X
		20,25	9,9	12,13	16,33.2	9.3,9.3
		14,17	No Results	No Results	No Results	Not Tested
2BMN64	Identifiler® Direct					
			20,25		14,16	11,12
1		11,13	13,14			8,11
		15,18	12,14	30,31.2		X,X
		20,25				9.3
		14,17				11
2UEATT	GlobalFiler™					
		12,16	20,25	11	14,16	11,12
1		11,13	13,14	13,16	20,21	8,11
		15,18	12,14	30,31.2	11,15	X
		20,25			16,33.2	9.3
		14,17				11
2VW4T3	Investigator® 24plex GO!					
		12,16	20,25	11	14,16	11,12
1		11,13	13,14	13,16	20,21	8,11
		15,18	12,14	30,31.2	11,15	X
		20,25			16,33.2	9.3
		14,17				11
33DLJ3	Identifiler® Plus					
			20,25		14,16	11,12
1		11,13	13,14			8,11
		15,18	12,14	30,31.2		X
		20,25				9.3
		14,17				11
39C99G	PowerPlex® Fusion 6C					
		12,16	20,25	11,11	14,16	11,12
1		11,13	13,14	13,16	20,21	8,11
		15,18	12,14	30,31.2	11,15	X,X
		20,25	9,9	12,13	16,33.2	9.3,9.3
		14,17	No Results	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

3L488R	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
3MT9XV	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17					
4BJTQP	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17					
4FRBR4	GlobalFiler™ Express					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17	NR			NR	
4JRV3V	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
4K3UYP	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25			16,33.2	9.3	11
	14,17					
4TY2RQ	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	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

4V3WBT	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17					
4Y8FG2	GlobalFiler™, Investigator® 24plex					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17	No Results			No Results	
63288Q	PowerPlex® Fusion 5C					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25	9	12,13		9.3	11
	14,17					
66Q7EG	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17	No Results	No Results	No Results		
6JBLK2	PowerPlex® Fusion					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25	9	12,13		9.3	11
	14,17	NR				
6KLX8Q	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17	--			--	
6N3WBR	PowerPlex® Fusion 6C					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25	9	12,13	16,33.2	9.3	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

6QTU9X	GlobalFiler™ Express					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17	NR			NR	
6XQJP3	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25			16,33.2	9.3,9.3	11,11
	14,17					
79JYWV	Investigator® 24plex GO!					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
7CLX8N	PowerPlex® Fusion 5C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13		9.3,9.3	11,11
	14,17					
7DFDCD	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17	No Results	No Results	No Results		
7HAK3T	GlobalFiler™ (STRmix)					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
7NZHKC	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17	No Results	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

7NZVCR	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
7PUN8B	Identifiler® Plus					
		20,25		14,16	11,12	
1	11,13	13,14			8,11	10,11
	15,18	12,14	30,31.2		X,X	11,12
	20,25				9.3,9.3	11,11
	14,17					
7T7N7M	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17	NR			NR	
7TVCJY	Identifiler® Direct					
		20,25		14,16	11,12	
1	11,13	13,14			8,11	10,11
	15,18	12,14	30,31.2		X,X	11,12
	20,25				9.3	11
	14,17					
7X4K3N	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17					
7X63RR	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9.3,9.3	11,11
	14,17					
87VDWZ	GlobalFiler™ Express					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9.3	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

8FZUDP	PowerPlex® Fusion 6C, GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17	not detected			not detected	
8GQTB3	Investigator® 24plex					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17					
8P4CL8	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17	NR	NR	NR		
92YHGQ	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
93AU73	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17					
93UNTX	PowerPlex® Fusion					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25	9	12,13		9.3	11
	14,17	NR				
9BKEAY	PowerPlex® Fusion 6C, GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9	12,13	16,33.2	9.3	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

9FF4WX	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17	No Results			No Results	
9HFEJK	VeriFiler Express					
	12,16	20,25	11,11	14,16	11,12	11,19
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13		9,3,9.3	11,11
	14,17					
9KP483	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17					
9R9KLY	GlobalFiler™ Express					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3	11
	14,17	NM			NM	
9RUXAB	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17	No results	No results	No results		
ACA38K	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17					
ALZT2K	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3	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

AP3YD6	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17	ND	ND	ND		
ARJJK	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17					
AV3BCM	PowerPlex® Fusion 6C, GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17	N.D.			N.D.	
BGJKYL	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17					
BKLEZB	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17	No Results	No Results	No Results		
BU6ZZY	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17					
BY3C6C	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17	No Results	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

C6NQ3H	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17					
C6YTNG	GlobalFiler™ (TrueAllele)					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
CBTXVK	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
CGZNXQ	Investigator® 24plex GO!					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
CKJJZH	PowerPlex® Fusion 5C					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25	9	12,13		9.3	11
	14,17					
CLUXEY	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17					
CQLPFL	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	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

CRG9HM	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
CUNQFH	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9.3,9.3	11,11
	14,17					
CZRXT	Identifiler® Plus					
		20,25		14,16	11,12	
1	11,13	13,14			8,11	10,11
	15,18	12,14	30,31.2		X,X	11,12
	20,25				9.3,9.3	11,11
	14,17					
D39GFF	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
DDRHH	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9.3	11
	14,17					
DPQWBA	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9.3,9.3	11,11
	14,17	No Results			No Results	
DW4H6Q	Investigator® 24plex GO!					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	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

DYBZ3L	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
E46G98	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17	No Results	No Results	No Results		
EE2X6G	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25			16,33.2	9.3,9.3	11,11
	14,17					
F4J33M	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
F82X6E	PowerPlex® Fusion					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25	9	12,13		9.3	11
	14,17					
FBZ4BR	GlobalFiler™ Express					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17	No results			No results	
FCCMFV	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25			16,33.2	9.3,9.3	11,11
	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

FHK28R	GlobalFiler™ Express					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9.3	11
	14,17	NM			NM	
FMVPQF	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9.3,9.3	11,11
	14,17					
G4D67G	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
GHZKP4	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17	No Results	No Results	No Results		
GQN96J	PowerPlex® Fusion					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13		9.3,9.3	11,11
	14,17					
GRZ9JL	GlobalFiler™ Express					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17	no results			no results	
GV4GTJ	GlobalFiler™ (STRmix)					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	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

GYGUKC	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17					
HHAMVF	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17					
HKU4YF	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17					
HPABME	PowerPlex® Fusion 6C					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25	9	12,13	16,33.2	9.3	11
	14,17					
J2JY2B	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
JCJ2DE	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17					
JFKZWK	PowerPlex® Fusion					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25	9	12,13		9.3	11
	14,17	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

JQJXGY	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9,3	11,11
	14,17	NR	NR	NR		
JQXUUB	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9,3	11,11
	14,17	--			--	
JVBABA	VeriFiler Express					
	12,16	20,25	11,11	14,16	11,12	11,19
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13		9,3,9,3	11,11
	14,17					
JYDG3F	GlobalFiler™ (STRmix)					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9,3	11
	14,17					
K2ZEUH	Investigator® 24plex GO!					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9,3	11
	14,17					
K6DEQA	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9,3	11,11
	14,17					
K7QP4G	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9,3	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

KBHN6C	PowerPlex® Fusion 6C						
		12,16	20,25	11,11	14,16	11,12	
	1	11,13	13,14	13,16	20,21	8,11	10,11
		15,18	12,14	30,31.2	11,15	X,X	11,12
		20,25	9,9	12,13	16,33.2	9,3,9,3	11,11
	14,17						
KJFNVJ	Investigator® 24plex GO!						
		12,16	20,25	11	14,16	11,12	
	1	11,13	13,14	13,16	20,21	8,11	10,11
		15,18	12,14	30,31.2	11,15	X	11,12
		20,25			16,33.2	9,3	11
	14,17						
KP4YXA	PowerPlex® Fusion 6C						
		12,16	20,25	11,11	14,16	11,12	
	1	11,13	13,14	13,16	20,21	8,11	10,11
		15,18	12,14	30,31.2	11,15	X,X	11,12
		20,25	9,9	12,13	16,33.2	9,3,9,3	11,11
	14,17						
KXJHFN	GlobalFiler™ Express						
		12,16	20,25	11	14,16	11,12	
	1	11,13	13,14	13,16	20,21	8,11	10,11
		15,18	12,14	30,31.2	11,15	X	11,12
		20,25			16,33.2	9,3	11
	14,17	No Results			No Results		
L38KZY	PowerPlex® Fusion 6C						
		12,16	20,25	11,11	14,16	11,12	
	1	11,13	13,14	13,16	20,21	8,11	10,11
		15,18	12,14	30,31.2	11,15	X,X	11,12
		20,25	9,9	12,13	16,33.2	9,3,9,3	11,11
	14,17	No Results	No Results	No Results			
L6UVJH	Investigator® 24plex GO!						
		12,16	20,25	11	14,16	11,12	
	1	11,13	13,14	13,16	20,21	8,11	10,11
		15,18	12,14	30,31.2	11,15	X	11,12
		20,25			16,33.2	9,3	11
	14,17						
LLGBME	PowerPlex® Fusion						
		12,16	20,25	11,11	14,16	11,12	
	1	11,13	13,14	13,16	20,21	8,11	10,11
		15,18	12,14	30,31.2	11,15	X,X	11,12
		20,25	9,9	12,13		9,3,9,3	11,11
	14,17	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

LWUHEX	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17	No Results	No Results	No Results		
LWDER8	PowerPlex® Fusion 5C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13		9,3,9.3	11,11
	14,17					
M32QDB	PowerPlex® Fusion 6c					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17					
M6M467	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
M97LFJ	PowerPlex® Fusion 6C					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25	9	12,13	16,33.2	9.3	11
	14,17	NR	NR	NR		
MD2PEA	PowerPlex® Fusion 6C, GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17	Not detected			Not detected	
MJLHCA	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	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

MUC2YV	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17	No Results	No Results	No Results		
N27LFG	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17	No Results			No Results	
N3EBND	Investigator® 24plex GO!					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
N7GLQM	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17					
NCLHD9	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
NHBTJ	GlobalFiler™ Express					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9.3	11
	14,17	NM			NM	
NP8WF8	PowerPlex® Fusion 6C					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25	9	12,13	16,33.2	9.3	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

NR2HBJ	GlobalFiler™ Express					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17	NR			NR	
NTA49D	PowerPlex® Fusion					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13		9.3,9.3	11,11
	14,17					
NVZU8J	GlobalFiler™ Express					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17	NR			NR	
NXRNBF	PowerPlex® Fusion					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25	9	12,13		9.3	11
	14,17	NR				
NYWHL7	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17					
NYXNCT	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25			16,33.2	9.3,9.3	11,11
	14,17	NR			NR	
P2YXEU	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17	No Results	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

P3ADR8	GlobalFiler™ (STRmix)					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
P437NQ	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17	ND	ND	ND		
PCFM78	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17					
PGVTBU	PowerPlex® 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17	No Results	No Results	No Results		
PLPMT9	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
PQ36BP	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	N/A
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17	NR	NR	NR	N/A	
PYA3W8	GlobalFiler™ (STRmix)					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25			16,33.2	9.3	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

Q6EPZF	PowerPlex® Fusion 5C					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25	9	12,13		9.3	11
	14,17					
QG92FE	Investigator® 24plex					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25			16,33.2	9.3,9.3	11,11
	14,17	No Results				
QLJ2QK	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25			16,33.2	9.3,9.3	11,11
	14,17					
QRA2W7	PowerPlex® Fusion 6C, GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25			16,33.2	9.3,9.3	11,11
	14,17	Not Detected			Not Detected	
R74GPR	Investigator® 24plex					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25			16,33.2	9.3,9.3	11,11
	14,17	No Results				
R83UH8	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25			16,33.2	9.3,9.3	11,11
	14,17					
R8JDHQ	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17	No Results	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

RB283B	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
RBJPDQ	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17	No Results	No Results	No Results		
RCU4R6	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
RHWA6M	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17	NR	NR	NR		
RLFWQ3	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17					
RPJQQR	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	Not Tested
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17	No Results	No Results	No Results	Not Tested	
RV4NEF	GlobalFiler™ Express					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	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

RVADT7	PowerPlex® Fusion 6C, GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17	Not detected			Not detected	
T2ANAH	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17					
T67ZX8	PowerPlex® Fusion					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13		9,3,9.3	11,11
	14,17					
T6PA4A	PowerPlex® Fusion					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25	9	12,13		9.3	11
	14,17	NR				
TAGEVT	PowerPlex® Fusion 6c					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17	No Results	No Results	No Results		
TAL9JL	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17	NR	NR	NR		
TBYC77	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	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

TCRFJD	PowerPlex® Fusion					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25	9	12,13		9.3	11
	14,17	NR				
TED64Q	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17	No Results	No Results	No Results		
TFM8PP	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17					
TKLX39	Investigator® 24plex GO!					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
TV6D7B	Investigator® 24plex GO!					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
TVJ283	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	XX	11,12
	20,25			16,33.2	9.3	11
	14,17					
TWYNXC	Identifiler® Direct					
		20,25		14,16	11,12	
1	11,13	13,14			8,11	10,11
	15,18	12,14	30,31.2		XX	11,12
	20,25				9.3	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

TY4GQP	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17	No Results			No Results	
TY44CM	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17	no results			no results	
U4RFJB	NGM SElect					
	12,16	20,25	11,11	14,16		
1	13,14	13,16	20,21			10,11
	15,18	12,14	30,31.2	11,15	X,X	
	20,25			16,33.2	9,3,9.3	
	14,17					
U6N9L3	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
UZ6BU6	PowerPlex® Fusion					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13		9,3,9.3	11,11
	14,17					
V392KZ	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17					
V63MFC	GlobalFiler™ Express					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17	No result			No result	

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

VCYRGL	PowerPlex® ESX16 Fast					
	12,16	20,25	11,11	14,16		
1		13,14	13,16	20,21		10,11
	15,18	12,14	30,31.2	11,15	X,X	
	20,25				9,9,9.3	
	14,17					
WD8Z2	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
W43EYX	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9.3	11
	14,17					
WJUA93	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
WPMLHZ	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
WT6BU4	GlobalFiler™ (STRmix)					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
WVRP6D	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9,3	11,11
	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

X38NDX	PowerPlex® Fusion					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13		9,3,9.3	11,11
	14,17	No Results				
XCB72Z	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17	NR			NR	
XEZ3JL	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17	No Results			No Results	
XFPZGX	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9,3,9.3	11,11
	14,17	--			--	
XXCUFW	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17					
XYQQX2	GlobalFiler™ (STRmix)					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
Y4EDY8	PowerPlex® Fusion					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25	9	12,13		9.3	11
	14,17	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

Y7Z3JK	PowerPlex® Fusion 6c					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	{13,16}	20,21	{8,11}	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	{14,17}	No Results	No Results	No Results		
Y8EYVW	PowerPlex® Fusion					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9	12,13		9.3	11
	14,17					
YD39YM	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17	No Results	No Results	No Results		
YHDY92	PowerPlex® Fusion 5C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13		9,3,9.3	11,11
	14,17					
YJ7ZLY	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17					
YJTW2Z	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
YRJVV3	Investigator® 24plex GO!					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	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

YTC6CU	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17					
YWEB4Z	GlobalFiler™ (STRmix)					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
YXAGF8	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17	No Results	No Results	No Results		
YYH7LH	PowerPlex® 21					
	12,16	20,25		14,16	11,12	11,19
1	11,13	13,14		20,21	8,11	10,11
	15,18	12,14	30,31.2		X,X	11,12
	20,25	9,9	12,13		9,3,9.3	11,11
	14,17					
YZT9A2	PowerPlex® Fusion					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13		9,3,9.3	11,11
	14,17					
Z6NMPJ	PowerPlex® 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9,3,9.3	11,11
	14,17	No Results	No Results	No Results		
ZADY9Y	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	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

ZKJ878	GlobalFiler™					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25			16,33.2	9.3	11
	14,17					
ZLPP63	PowerPlex® Fusion					
	12,16	20,25	11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X	11,12
	20,25	9	12,13		9.3	11
	14,17	NR				
ZRYR8X	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	14,17					
ZWNZHW	PowerPlex® Fusion 6C, GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9.3,9.3	11,11
	14,17	Not detected			Not detected	
ZZ9E2J	PowerPlex® Fusion 6C					
	12,16	20,25	11,11	14,16	11,12	
1	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25	9,9	12,13	16,33.2	9.3,9.3	11,11
	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

22JGNH	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	Not Tested
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17	Not Tested	
2BMN64	Identifiler® Direct					
		19,24		16,17	8,12	
2	9	14			9,12	9,11
	14,17	13	29,30		X,Y	11
	21,24				6,9	11,14
	14,18					
2UEATT	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
2VW4T3	Investigator® 24plex GO!					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11				
33DLJ3	Identifiler® Plus					
		19,24		16,17	8,12	
2	9	14			9,12	9,11
	14,17	13	29,30		X,Y	11
	21,24				6,9	11,14
	14,18					
39C99G	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
3L488R	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	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

3MT9XV	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
4BJTQP	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
4FRBR4	GlobalFiler™ Express					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
4JRV3V	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
4K3UYP	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
4TY2RQ	PowerPlex® Fusion 6c					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
4V3WBT	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	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

4Y8FG2	GlobalFiler™, Investigator® 24plex (STRmix)					
	16,3,17.3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
63288Q	PowerPlex® Fusion 5C					
	16,3,17.3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
66Q7EG	PowerPlex® Fusion 6C					
	16,3,17.3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
6JBLK2	PowerPlex® Fusion					
	16,3,17.3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
6KLX8Q	GlobalFiler™					
	16,3,17.3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
6N3WBR	PowerPlex® Fusion 6C					
	16,3,17.3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
6QTU9X	GlobalFiler™ Express					
	16,3,17.3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	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

6XQJP3	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
79JYWV	Investigator® 24plex GO!					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11				
7CLX8N	PowerPlex® Fusion 5C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
7DFDCD	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	{8,13}	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
7HAK3T	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
7NZHKC	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
7NZVCR	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	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

7PUN8B	Identifiler® Plus					
		19,24		16,17	8,12	
2		9,9	14,14		9,12	9,11
		14,17	13,13	29,30	X,Y	11,11
		21,24			6,9	11,14
		14,18				
7T7N7M	GlobalFiler™					
		16.3,17.3	19,24	10,11	16,17	8,12
2		9	14	15,16	15,18	9,12
		14,17	13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11			2
7TV CJY	Identifiler® Direct					
		19,24		16,17	8,12	
2		9	14		9,12	9,11
		14,17	13	29,30	X,Y	11
		21,24			6,9	11,14
		14,18				
7X4K3N	PowerPlex® Fusion 6C					
		16.3,17.3	19,24	10,11	16,17	8,12
2		9,9	14,14	15,16	15,18	9,12
		14,17	13,13	29,30	15,16	X,Y
		21,24	8,13	5,21	17,25.2	6,9
		14,18	11	17	17	
7X63RR	GlobalFiler™					
		16.3,17.3	19,24	10,11	16,17	8,12
2		9,9	14,14	15,16	15,18	9,12
		14,17	13,13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11			2
87VDWZ	GlobalFiler™ Express					
		16.3,17.3	19,24	10,11	16,17	8,12
2		9	14	15,16	15,18	9,12
		14,17	13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11			2
8FZUDP	PowerPlex® Fusion 6C, GlobalFiler™					
		16.3,17.3	19,24	10,11	16,17	8,12
2		9,9	14,14	15,16	15,18	9,12
		14,17	13,13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	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

8GQTB3	Investigator® 24plex					
	16,3,17.3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11				
8P4CL8	PowerPlex® Fusion 6C					
	16,3,17.3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
92YHGQ	GlobalFiler™					
	16,3,17.3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
93AU73	GlobalFiler™					
	16,3,17.3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
93UNTX	PowerPlex® Fusion					
	16,3,17.3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
9BKEAY	PowerPlex® Fusion 6C, GlobalFiler™					
	16,3,17.3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17	2	
9FF4WX	GlobalFiler™					
	16,3,17.3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	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

9HFEJK	VeriFiler Express					
	16,3,17,3	19,24	10,11	16,17	8,12	12,17
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21		6,9	11,14
	14,18				2	
9KP483	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
9R9KLY	GlobalFiler™ Express					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
9RUXAB	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
ACA38K	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
ALZT2K	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
AP3YD6	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	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

ARJJZK	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
AV3BCM	PowerPlex® Fusion 6C, GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
BGJKYL	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
BKLEZB	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
BU6ZZY	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
BY3C6C	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
C6NQ3H	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	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

C6YTNG	GlobalFiler™ (TrueAllele)					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11			2
CBTXVK	GlobalFiler™					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11			2
CGZNXQ	Investigator® 24plex GO!					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11			
CKJJZH	PowerPlex® Fusion 5C					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24	8,13	5,21		6,9
		14,18	11			
CLUXEY	GlobalFiler™					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11			2
CQLPFL	GlobalFiler™					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11			2
CRG9HM	GlobalFiler™					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	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

CUNQFH	GlobalFiler™						
		16.3,17.3	19,24	10,11	16,17	8,12	
	2	9,9	14,14	15,16	15,18	9,12	9,11
		14,17	13,13	29,30	15,16	X,Y	11,11
		21,24			17,25.2	6,9	11,14
		14,18	11			2	
CZRXT	Identifiler® Plus						
			19,24		16,17	8,12	
	2	9,9	14,14			9,12	9,11
		14,17	13,13	29,30		X,Y	11,11
		21,24				6,9	11,14
		14,18					
D39GFF	GlobalFiler™						
		16.3,17.3	19,24	10,11	16,17	8,12	
	2	9	14	15,16	15,18	9,12	9,11
		14,17	13	29,30	15,16	X,Y	11
		21,24			17,25.2	6,9	11,14
		14,18	11			2	
DDRHH	GlobalFiler™						
		16.3,17.3	19,24	10,11	16,17	8,12	
	2	9	14	15,16	15,18	9,12	9,11
		14,17	13	29,30	15,16	X,Y	11
		21,24			17,25.2	6,9	11,14
		14,18	11			2	
DPQWBA	GlobalFiler™						
		16.3,17.3	19,24	10,11	16,17	8,12	
	2	9,9	14,14	15,16	15,18	9,12	9,11
		14,17	13,13	29,30	15,16	X,Y	11,11
		21,24			17,25.2	6,9	11,14
		14,18	11			2	
DW4H6Q	Investigator® 24plex GO!						
		16.3,17.3	19,24	10,11	16,17	8,12	
	2	9	14	15,16	15,18	9,12	9,11
		14,17	13	29,30	15,16	X,Y	11
		21,24			17,25.2	6,9	11,14
		14,18	11				
DYBZ3L	GlobalFiler™						
		16.3,17.3	19,24	10,11	16,17	8,12	
	2	9	14	15,16	15,18	9,12	9,11
		14,17	13	29,30	15,16	X,Y	11
		21,24			17,25.2	6,9	11,14
		14,18	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

E46G98	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	{9,11}
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	{14,18}	11	17	17		
EE2X6G	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
F4J33M	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
F82X6E	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
FBZ4BR	GlobalFiler™ Express					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
FCCMFV	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
FHK28R	GlobalFiler™ Express					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	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

FMVPQF	GlobalFiler™					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
	14,18	11			2	
G4D67G	GlobalFiler™					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
	14,18	11			2	
GHZKP4	PowerPlex® Fusion 6C					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24	8,13	5,21	17,25.2	6,9
	14,18	11	17	17		
GQN96J	PowerPlex® Fusion					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24	8,13	5,21		6,9
	14,18	11				
GRZ9JL	GlobalFiler™ Express					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
	14,18	11			2	
GV4GTJ	GlobalFiler™ (STRmix)					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
	14,18	11			2	
GYGUKC	PowerPlex® Fusion 6C					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24	8,13	5,21	17,25.2	6,9
	14,18	11	17	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

HHAMVF	GlobalFiler™					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11			2
HKU4YF	PowerPlex® Fusion 6C					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24	8,13	5,21	17,25.2	6,9
		14,18	11	17	17	
HPABME	PowerPlex® Fusion 6C					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24	8,13	5,21	17,25.2	6,9
		14,18	11	17	17	
J2JY2B	GlobalFiler™					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11			2
JCJ2DE	PowerPlex® Fusion 6C					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24	8,13	5,21	17,25.2	6,9
		14,18	11	17	17	
JFKZWK	PowerPlex® Fusion					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24	8,13	5,21		6,9
		14,18	11			11,14
JQJXGY	PowerPlex® Fusion 6C					
		16,3,17,3	19,24	10,11	16,17	8,12
	2	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24	8,13	5,21	17,25.2	6,9
		14,18	11	17	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

JQXUUB	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
JVBABA	VeriFiler Express					
	16,3,17,3	19,24	10,11	16,17	8,12	12,17
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21		6,9	11,14
	14,18				2	
JYDG3F	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
K2ZEUH	Investigator® 24plex GO!					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11				
K6DEQA	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
K7QP4G	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
KBHN6C	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	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

KJFNVJ	Investigator® 24plex GO!					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11				
KP4YXA	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
KXJHFN	GlobalFiler™ Express					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
L38KZY	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
L6UVJH	Investigator® 24plex GO!					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11				
LLGBME	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
LUWHEX	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	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

LWDER8	PowerPlex® Fusion 5C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
M32QDB	PowerPlex® Fusion 6c					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
M6M467	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
M97LFJ	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
MD2PEA	PowerPlex® Fusion 6C, GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
MJLHCA	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
MUC2YV	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	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

N27LFG	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
N3EBND	Investigator® 24plex GO!					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11				
N7GLQM	PowerPlex®, GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
NCLHD9	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
NHBTJV	GlobalFiler™ Express					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
NP8WF8	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
NR2HBJ	GlobalFiler™ Express					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	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

NTA49D	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
NVZU8J	GlobalFiler™ Express					
	16,3,17,3	19,24	10,11	16,17	8,12	
	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11		2		
NXRNBF	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
NYWHL7	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
NYXNCT	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11		2		
P2YXEU	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
P3ADR8	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	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

P437NQ	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
PCFM78	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
PGVTBU	PowerPlex® 6C (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
PLPMT9	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
PQ36BP	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	N/A
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17	N/A	
PYA3W8	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
Q6EPZF	PowerPlex® Fusion 5C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	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

QG92FE	Investigator® 24plex					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11				
QLJ2QK	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
QRA2W7	PowerPlex® 6C, GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
R74GPR	Investigator® 24plex					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11				
R83UH8	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
R8JDHQ	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
RB283B	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	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

RBJPDQ	PowerPlex® Fusion 6C						
		16,3,17.3	19,24	10,11	16,17	8,12	
	2	9,9	14,14	15,16	15,18	9,12	9,11
		14,17	13,13	29,30	15,16	X,Y	11,11
		21,24	8,13	5,21	17,25.2	6,9	11,14
		14,18	11	17	17		
RCU4R6	GlobalFiler™						
		16,3,17.3	19,24	10,11	16,17	8,12	
	2	9	14	15,16	15,18	9,12	9,11
		14,17	13	29,30	15,16	X,Y	11
		21,24			17,25.2	6,9	11,14
		14,18	11			2	
RHWA6M	PowerPlex® Fusion 6C						
		16,3,17.3	19,24	10,11	16,17	8,12	
	2	9,9	14,14	15,16	15,18	9,12	9,11
		14,17	13,13	29,30	15,16	X,Y	11,11
		21,24	8,13	5,21	17,25.2	6,9	11,14
		14,18	11	17	17		
RLFQW3	PowerPlex® Fusion 6C						
		16,3,17.3	19,24	10,11	16,17	8,12	
	2	9,9	14,14	15,16	15,18	9,12	9,11
		14,17	13,13	29,30	15,16	X,Y	11,11
		21,24	8,13	5,21	17,25.2	6,9	11,14
		14,18	11	17	17		
RPJQQR	PowerPlex® Fusion 6C						
		16,3,17.3	19,24	10,11	16,17	8,12	Not Tested
	2	9,9	14,14	15,16	15,18	9,12	9,11
		14,17	13,13	29,30	15,16	X,Y	11,11
		21,24	8,13	5,21	17,25.2	6,9	11,14
		14,18	11	17	17	Not Tested	
RV4NEF	GlobalFiler™ Express						
		16,3,17.3	19,24	10,11	16,17	8,12	
	2	9	14	15,16	15,18	9,12	9,11
		14,17	13	29,30	15,16	X,Y	11
		21,24			17,25.2	6,9	11,14
		14,18	11			2	
RVADT7	PowerPlex® Fusion 6C, GlobalFiler™						
		16,3,17.3	19,24	10,11	16,17	8,12	
	2	9,9	14,14	15,16	15,18	9,12	9,11
		14,17	13,13	29,30	15,16	X,Y	11,11
		21,24			17,25.2	6,9	11,14
		14,18	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

T2ANAH	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
T67ZX8	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
T6PA4A	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
TAGEVT	PowerPlex® Fusion 6c					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
TAL9JL	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
TBYC77	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
TCRFJD	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	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

TED64Q	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
TFM8PP	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
TKLX39	Investigator® 24plex GO!					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11				
TV6D7B	Investigator® 24plex GO!					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11				
TVJ283	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
TWYNXC	Identifiler® Direct					
		19,24		16,17	8,12	
2	9	14			9,12	9,11
	14,17	13	29,30		X,Y	11
	21,24				6,9	11,14
	14,18					
TY4GQP	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	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

TYZ4CM	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
U4RFJB	NGM SElect					
	16,3,17,3	19,24	10,11	16,17		
2		14,14	15,16	15,18		9,11
	14,17	13,13	29,30	15,16	X,Y	
	21,24			17,25.2	6,9	
	14,18					
U6N9L3	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
UZ6BU6	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
V392KZ	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
V63MFC	GlobalFiler™ Express					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
VCYRGL	PowerPlex® ESX16 Fast					
	16,3,17,3	19,24	10,11	16,17		
2		14,14	15,16	15,18		9,11
	14,17	13,13	29,30	15,16		
	21,24				6,9	
	14,18					

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

WD8Z2	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
W43EYX	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
WJUA93	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
WPMLHZ	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
WT6BU4	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
WVRP6D	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
X38NDX	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21		6,9	11,14
	14,18	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

XCB72Z	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
XEZ3JL	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
XFPZGX	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
XXCUFW	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
XYQQX2	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
Y4EDY8	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
Y7Z3JK	PowerPlex® Fusion 6c (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	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

Y8EYVW	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
YD39YM	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
YHDY92	PowerPlex® Fusion 5C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
YJ7ZLY	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
YJTW2Z	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
YRJV3	Investigator® 24plex GO!					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11				
YTC6CU	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	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

YWEB4Z	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
YXAGF8	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
YYH7LH	PowerPlex® 21					
	16,3,17,3	19,24		16,17	8,12	12,17
2	9,9	14,14		15,18	9,12	9,11
	14,17	13,13	29,30		X,Y	11,11
	21,24	8,13	5,21		6,9	11,14
	14,18					
YZT9A2	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
Z6NMPJ	PowerPlex® 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
ZADY9Y	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
ZKJ878	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	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

ZLPP63	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
ZRYR8X	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
ZWNZHW	PowerPlex® Fusion 6C, GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
ZZ9E2J	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
2	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	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 3 - STR Results

33DLJ3	Identifiler® Plus					
		20,22,24,25		14,16,17,18	11,12,13	
3		8,10,11,13	12,13,14		8,11,12	10,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	X,Y	10,11,12
		18,20,22,25			5,8,9.3	8,11
		14,16,17				
93AU73	GlobalFiler™					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
3		8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25			16,28.2,33.2,37	5,8,9.3
		14,16,17	11			8,11
					2	
9KP483	GlobalFiler™					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
3		8,10,11,13	12,13,14	13,16,17	20,21,24	8,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,22,25			16,28.2,33.2,37	5,8,9.3
		14,16,17	11			8,11
					2	
ACA38K	PowerPlex® Fusion 6C					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
3		8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3
		14,16,17	11	17	18	8,11
BU6ZZY	GlobalFiler™					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
3		8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,22,25			28.2,33.2,37	5,8,9.3
		14,16	11			8,11
					2	
CLUXEY	GlobalFiler™					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
3		8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25			16,28.2,33.2,37	5,8,9.3
		14,16,17	11			8,11
					2	
N7GLQM	PowerPlex®, GlobalFiler™					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
3		8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25			16,28.2,33.2,37	5,8,9.3
		14,16,17	11			8,11
					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 3 - STR Results

QLJ2QK	GlobalFiler™					
	12,15,3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	13,14,16	30,31,2,32,2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28,2,33,2,37	5,8,9,3	8,11
	14,16,17	11			2	
T2ANAH	GlobalFiler™					
	12,15,3,16	20,22,24	11,13,14	14,16,17,18	11,12,13	
3	8,10,11	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,16	30,31,2,32,2	11,16,17	X,Y	10,11,12
	18,20,22,25			16,28,2,33,2,37	5,8,9,3	8,11
	14,16,17	11			2	
WVRP6D	GlobalFiler™					
	12,15,3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31,2,32,2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28,2,33,2,37	5,8,9,3	8,11
	14,16,17	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

22JGNH	GlobalFiler™						
		12,[15.3],16	[20],22,24,[25]	11,[13],[14]	14,16,17,18	[11],12,[13]	Not Tested
3e		8,10,11,13	[12],[13],[14]	13,[16],[17]	20,21,[24]	8,[11],[12]	[10],[11],[12]
		12,15,[18]	12,13,14,[16]	30,[31.2],[32.2]	11,15,16,17	X,[Y]	[10],[11],12
		18,20,22,25	Not Tested	Not Tested	16,28.2,33.2,[37]	5,8,9.3	[8],11
		14,[16],[17]	11	Not Tested	Not Tested	2	
2BMN64	Identifiler® Plus		20,22,24,25		14,16,17,18	11,12,13	
3e		8,10,11,13	12,13,14			8,11,12	10,11,12
		12,15,18	12,13,14,16	30,31.2,32.2		X,Y	10,11,12
		18,20,22,25				5,8,9.3	8,11
		14,16,17					
2UEATT	GlobalFiler™						
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e		8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
		18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
		14,16,17	11			2	
39C99G	GlobalFiler™						
		12,[15.3],16	20,22,24,25	11,[13],[14]	14,16,17,18	11,12,[13]	
3e		[8],[10],11,13	[12],[13],[14]	13,16,[17]	[20],[21],[24]	8,11,[12]	10,11,[12]
		[12],15,18	12,13,14,16	30,31.2,[32.2]	11,15,[16],[17]	X,[Y]	[10],[11],12
		[18],20,[22],25			16,[28.2],[33.2],[37]	[5],[8],9.3	[8],11
		14,[16],17	11			2	
3L488R	GlobalFiler™						
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e		8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
		18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
		14,16,17	11			2	
3MT9XV	PowerPlex® Fusion 6C						
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e		8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
		18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
		14,16,17	11	17	18		
4BJTQP	PowerPlex® Fusion 6C						
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e		8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
		18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
		14,16,17	11	17	18		

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

4FRBR4	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
4JRV3V	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
4K3UYP	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,[Y]	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	[8],11
	14,16,17	11			2	
4TY2RQ	PowerPlex® Fusion 6c					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
4V3WBT	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
4Y8FG2	GlobalFiler™					
	12,[15.3],16	[20],22,24,[25]	11,[13],[14]	14,16,17,18	[11],12,[13]	
3e	8,10,11,13	[12],[13],[14]	13,[16],[17]	20,21,[24]	8,[11],[12]	10,11,[12]
	[12],15,[18]	12,13,14,16	30,[31.2],[32.2]	11,15,16,17	X,[Y]	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	[8],11
	14,[16],[17]	11			2	
63288Q	PowerPlex® Fusion 5C					
	[12,15.3],16	20,22,24,25	11,13,14	14,16,17,18	[11],12,[13]	
3e	8,10,11,13	[12],[13],[14]	13,16,17	20,21,24	8,[11,12]	10,11,12
	[12],15,[18]	12,13,14,16	30,31.2,32.2	11,15,16,17	X,[Y]	10,11,12
	18,20,22,25	9,[12]	12,13,17		5,8,9.3	[8],11
	14,16,17	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

66Q7EG	GlobalFiler™					
		[12],[15.3],16	[20],22,24,25	11,[13],[14]	14,16,17,18	[11],12,[13]
	3e	8,10,11,13	[12],13,[14]	13,16,[17]	20,21,[24]	8,[11],[12]
		[12],15,[18]	12,13,14,16	30,[31.2],[32.2]	11,15,16,17	X,[Y]
		18,20,22,25			16,28.2,33.2,37	5,[8],9.3
	14,[16],17	11			[8],11	
					2	
6JBLK2	PowerPlex® Fusion					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25	9,12	12,13,17		5,8,9.3
	14,16,17	11			8,11	
6KLX8Q	GlobalFiler™					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25			16,28.2,33.2,37	5,8,9.3
	14,16,17	11			8,11	
					2	
6N3WBR	PowerPlex® Fusion 6C					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3
	14,16,17	11	17	18	8,11	
6QTU9X	GlobalFiler™					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25			16,28.2,33.2,37	5,8,9.3
	14,16,17	11			8,11	
					2	
6XQJP3	GlobalFiler™					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25			16,28.2,33.2,37	5,8,9.3
	14,16,17	11			8,11	
					2	
7DFDCD	GlobalFiler™					
		[12],[15.3],16	[20],22,24,[25]	11,[13],[14]	14,16,17,18	[11],12,[13]
	3e	8,10,11,13	[12],13,[14]	13,[16],[17]	[20],21,[24]	8,[11],[12]
		[12],15,[18]	12,13,14,16	30,31.2,[32.2]	11,15,16,17	X,[Y]
		18,20,22,25			16,28.2,33.2,37	5,8,9.3
	14,[16],[17]	11			[8],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

7HAK3T	GlobalFiler™ (STRmix)					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
7NZHKC	GlobalFiler™					
	12,[15.3],16	20,[22],[24],25	11,[13],[14]	14,16,[17],[18]	11,12,[13]	
3e	[8],[10],11,13	[12],13,14	13,[16],[17]	20,21,[24]	8,11,[12]	10,11,[12]
	[12],15,18	12,13,14,[16]	30,31.2,[32.2]	11,15,[16],[17]	X,[Y]	[10],11,12
	[18],20,[22],25			16,[28.2],[33.2],[37]	[5],[8],9.3	[8],11
	14,[16],17	11			2	
7NZVCR	GlobalFiler™ (STRmix)					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
7PUN8B	Identifiler® Plus					
		20,22,24,25		14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14			8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2		X,Y	10,11,12
	18,20,22,25				5,8,9.3	8,11
	14,16,17					
7T7N7M	GlobalFiler™					
	[12],[15.3],16	20,[22],[24],25	11,[13],[14]	14,16,[17],18	[11],12,[13]	
3e	8,10,11,13	[12],13,[14]	13,16,[17]	20,21,[24]	8,11,[12]	10,11,[12]
	[12],15,[18]	12,13,14,[16]	30,31.2,[32.2]	11,15,16,17	X,[Y]	[10],11,12
	[18],20,22,25			16,[28.2],[33.2],[37]	[5],[8],9.3	[8],11
	14,[16],[17]	11			2	
7TVCJY	Identifiler® Plus					
		20,22,24,25		14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14			8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2		X,Y	10,11,12
	18,20,22,25				5,8,9.3	8,11
	14,16,17					
7X4K3N	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		

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

7X63RR	GlobalFiler™ (STRmix)					
	12,15,3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
87VDWZ	Identifiler® Plus					
		20,22,24,25		14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14			8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2		X,Y	10,11,12
	18,20,22,25				5,8,9.3	8,11
	14,16,17					
8FX678	PowerPlex® Fusion 6C					
	12,15,3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
8FZUDP	GlobalFiler™					
	12,15,3,16	20,22,24,25	11,[13],14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,[17]	20,21,[24]	8,11,[12]	10,11,12
	[12],15,18	12,13,14,16	30,31.2,[32.2]	11,15,16,17	X,X,[Y]	10,11,12
	18,20,22,25			16,28.2,33.2,[36],[37]	5,8,9.3	[8],11,11
	14,16,17	11			2	
8GQTB3	Investigator® 24plex					
	12,16	20,25	11,11	14,16	11,12	
3e	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9.3,9.3	11,11
	14,17					
8P4CL8	PowerPlex® Fusion 6C					
	12,15,3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		

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

92YHGQ	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
93UNTX	PowerPlex® Fusion					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17		5,8,9.3	8,11
	14,16,17	11				
9BKEAY	PowerPlex® ESI17 and ESX17					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18		
3e		12,13,14	13,16,17	20,21,24		10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	
	14,16,17					
9FF4WX	PowerPlex® Fusion 6C					
	12,[15.3],16	20,[22],[24],25	11,[13],[14]	14,16,[17],[18]	11,12,[13]	
3e	[8],[10],11,13	[12],13,14	13,16,[17]	20,21,[24]	8,11,[12]	10,11,[12]
	[12],15,18	12,[13],14,[16]	30,31.2,[32.2]	11,15,[16],[17]	X,[Y]	[10],11,12
	[18],20,[22],25	9,[12]	12,13,[17]	16,[28.2],33.2,[37]	[5],[8],9.3	[8],11
	14,[16],[17]	11	17	18		
9HFEJK	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
3e	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9.3,9.3	11,11
	14,17					
9R9KLY	Identifiler® Plus					
		20,22,24,25		14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14			8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2		X,Y	10,11,12
	18,20,22,25				5,8,9.3	8,11
	14,16,17					
9RUXAB	GlobalFiler™					
	[12],15.3,16	20,22,24,25	11,[13],[14]	14,16,17,18	11,12,[13]	
3e	8,10,11,13	[12],13,[14]	13,16,[17]	[20],21,[24]	8,[11],[12]	10,11,[12]
	[12],15,[18]	12,13,14,16	30,[31.2],32.2	11,15,16,17	X,[Y]	[10],11,12
	18,20,22,25			16,28.2,33.2,[37]	5,8,9.3	[8],11
	14,[16],[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

ALZT2K	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
AP3YD6	PowerPlex® Fusion 6C					
	12,[15.3],16	20,[22],[24],25	11,11,[13],[14]	14,16,[17],[18]	11,12,[13]	
3e	[8],[10],11,13	[12],13,14	13,16,[17]	20,21,[24]	8,11,[12]	10,11,[12]
	[12],15,18	12,[13],14,[16]	30,31.2,[32.2]	11,15,[16],[17]	X,X,[Y]	[10],11,12
	[18],20,[22],25	9,9,[12]	12,13,[17]	16,[28.2],33.2,[37]	[5],[8],9.3,9.3	[8],11,11
	14,[16],17	[11]	17	18		
ARJJK	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
AV3BCM	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,(11),12	10,11,(12)
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,X,(Y)	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	(8),11,11
	14,16,17	11			2	
BGJKYL	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
BKLEZB	GlobalFiler™					
	12,[15.3],16	20,[22],[24],25	11,[13],[14]	14,16,[17],[18]	11,12,[13]	
3e	[8],[10],11,13	[12],13,14	13,16,[17]	20,21,[24]	8,11,[12]	10,11,[12]
	[12],15,18	12,[13],14,[16]	30,31.2,[32.2]	11,15,[16],[17]	X,[Y]	[10],11,12
	[18],20,[22],25			16,[28.2],33.2,[37]	[5],[8],9.3	[8],11
	14,[16],17	11			2	
BY3C6C	GlobalFiler™					
	12,[15.3],16	20,22,[24],25	11,[13],[14]	14,16,17,18	11,12,[13]	
3e	[8],10,11,13	[12],13,14	13,16,[17]	20,21,[24]	8,11,[12]	10,11,[12]
	[12],15,18	12,13,14,16	30,[31.2],[32.2]	11,15,16,[17]	X,[Y]	[10],[11],12
	[18],20,[22],25			16,[28.2],33.2,[37]	5,8,9.3	[8],11
	14,[16],[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

C6NQ3H	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
C6YTNG	GlobalFiler™ (TrueAllele)					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
CBTXVK	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
CQLPFL	GlobalFiler™ (STRmix)					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
CRG9HM	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
CUNQFH	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
CZRXT	Identifiler® Plus					
		20,25		14,16	11,12	
3e	11,13	13,14			8,11	10,11
	15,18	12,14	30,31.2		X,X	11,12
	20,25				9.3,9.3	11,11
	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

D39GFF	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
DDRVHH	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
DJJA2	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
DPQWBA	GlobalFiler™					
	12,[15.3],16	20,22,24,25	11,[13],[14]	14,16,17,[18]	11,12,[13]	
3e	8,10,11,13	[12],[13],[14]	13,[16],[17]	20,21,[24]	8,11,[12]	10,11,[12]
	[12],15,18	12,13,14,[16]	30,31.2,[32.2]	11,15,16,17	X,[Y]	[10],11,12
	[18],20,[22],25			16,[28.2],33.2,[37]	5,8,9.3	[8],11
	14,[16],17	11			2	
DYBZ3L	GlobalFiler™ (STRmix)					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
E46G98	GlobalFiler™					
	12,[15.3],16	20,[22],[24],25	11,[13],[14]	14,16,[17],[18]	11,12,[13]	
3e	[8],[10],11,13	[12],13,14	13,16,[17]	20,21,[24]	8,11,[12]	10,11,[12]
	[12],15,18	12,[13],14,[16]	30,31.2,[32.2]	11,15,[16],[17]	X,[Y]	[10],11,12
	[18],20,[22],25			16,[28.2],33.2,[37]	[5],[8],9.3	[8],11
	14,[16],17	11			2	
EE2X6G	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	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

F4J33M	GlobalFiler™ (STRmix)					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
FBZ4BR	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
FCCMFV	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
FHK28R	Identifiler® Plus					
		20,22,24,25		14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14			8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2		X,Y	10,11,12
	18,20,22,25				5,8,9.3	8,11
	14,16,17					
FMVPQF	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
G4D67G	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
GHZKP4	GlobalFiler™					
	12,[15.3],16	20,22,24,25	11,[13],[14]	14,16,17,18	11,12,13	
3e	8,[10],11,13	[12],13,[14]	13,16,[17]	20,21,[24]	8,11,[12]	[10],11,[12]
	[12],15,[18]	12,13,14,16	30,31.2,[32.2]	11,15,16,17	X,[Y]	[10],11,12
	18,20,[22],25			16,[28.2],33.2,[37]	5,[8],9.3	[8],11
	14,[16],[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

GNHNFx	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
GQN96J	PowerPlex® Fusion					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17		5,8,9.3	[8],11,11
	14,16,17	11				
GRZ9JL	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
GV4GTJ	GlobalFiler™ (STRmix)					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
GYGUKC	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
HHAMVF	GlobalFiler™ (STRmix)					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
HKU4YF	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		

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

HPABME	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
J2JY2B	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
JCJ2DE	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
JFKZWK	PowerPlex® Fusion					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17		5,8,9.3	8,11
	14,16,17	11				
JQJXGY	GlobalFiler™					
	12,[15.3],16	20,22,24,25	11,[13],[14]	14,16,17,[18]	11,12,[13]	
3e	8,10,11,13	[12],13,[14]	13,16,[17]	20,21,[24]	8,11,[12]	10,11,[12]
	[12],15,[18]	12,13,14,16	30,31.2,[32.2]	11,15,16,17	X,[Y]	[10],11,12
	18,20,[22],25			16,[28.2],33.2,[37]	5,8,9.3	[8],11
	14,[16],[17]	11			2	
JQXUUB	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
JVBABA	GlobalFiler™					
	12,16	20,25	11,11	14,16	11,12	
3e	11,13	13,14	13,16	20,21	8,11	10,11
	15,18	12,14	30,31.2	11,15	X,X	11,12
	20,25			16,33.2	9.3,9.3	11,11
	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

JYDG3F	GlobalFiler™ (STRmix)					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
K6DEQA	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
K7QP4G	GlobalFiler™ (STRMIX)					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
KBHN6C	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
KP4YXA	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
KRBQWV	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
KXJHFN	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	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

L38KZY	GlobalFiler™					
	[12],[15.3],16	20,22,[24],25	11,[13],[14]	14,16,[17],[18]	11,12,[13]	
	3e [8],[10],11,13	[12],13,[14]	13,16,[17]	20,21,[24]	8,11,[12]	10,11,[12]
	[12],15,18	12,13,14,[16]	30,31.2,[32.2]	11,15,[16],[17]	X,[Y]	[10],11,12
	[18],20,[22],25			16,[28.2],33.2,[37]	[5],8,9.3	[8],11
	14,[16],17	11			2	
LLGBME	PowerPlex® Fusion					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
	3e 8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17		5,8,9.3	8,11
	14,16,17	11				
LUWHEX	GlobalFiler™					
	12,[15.3],16	20,22,24,[25]	11,[13],[14]	14,16,17,[18]	[11],12,[13]	
	3e 8,10,11,13	[12],13,[14]	13,[16],[17]	20,21,[24]	8,[11],[12]	10,11,[12]
	[12],15,18	12,13,14,16	30,31.2,[32.2]	11,15,16,17	X,[Y]	[10],11,12
	18,20,22,25			16,[28.2],33.2,[37]	5,[8],9.3	[8],11
	14,[16],17	11		2		
M32QDB	PowerPlex® Fusion 6C					
	12,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
	3e 8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
M6M467	GlobalFiler™					
	12,[15.3],16	20,22,24,25	11,[13],[14]	14,16,17,18	11,12,[13]	
	3e 8,10,11,13	12,13,14	13,[16],[17]	[20],21,[24]	8,[11],[12]	[10],11,[12]
	[12],15,[18]	12,13,14,16	30,[31.2],[32.2]	11,15,16,17	X,[Y]	[10],11,12
	18,20,22,25			16,28.2,33.2,37	[5],[8],9.3	[8],11
	14,[16],[17]	11		2		
MD2PEA	GlobalFiler™					
	12,[15.3],16	20,[22],24,25	11,[13],14	14,16,[17],18	11,12,[13]	
	3e 8,10,11,13	12,13,14	13,16,[17]	20,21,[24]	8,11,[12]	10,11,[12]
	[12],15,18	12,13,14,16	30,31.2,[32.2]	11,15,[16],17	X,X,[Y]	10,11,12
	18,20,22,25			16,[28.2],33.2,37	[5,8],9.3	[8],11,11
	14,[16],17	11		2		
MJLHCA	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
	3e 8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		

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

MUC2YV	GlobalFiler™ (STRmix V2.5.1.1)					
	12,[15.3],16	20,22,[24],25	11,[13],[14]	14,16,[17],[18]	11,12,[13]	
3e	[8],[10],11,13	[12],13,14	13,16,[17]	20,21,[24]	8,[11],[12]	10,11,[12]
	[12],15,[18]	12,13,14,[16]	30,[31.2],[32.2]	11,15,[16],[17]	X,[Y]	[10],11,12
	[18],20,[22],25			16,[28.2],33.2,[37]	[5],[8],9.3	[8],11
	14,[16],17	11			2	
N27LFG	PowerPlex® Fusion 6C					
	12,[15.3],16	20,[22],[24],25	11,[13],[14]	14,16,[17],[18]	11,12,[13]	
3e	[8],[10],11,13	[12],13,14	13,16,[17]	20,21,[24]	8,11,[12]	10,11,[12]
	[12],15,18	12,[13],14,[16]	30,31.2,[32.2]	11,15,[16],[17]	X,[Y]	[10],11,12
	[18],20,[22],25	9,[12]	12,13,[17]	16,[28.2],33.2,[37]	[5],[8],9.3	[8],11
	14,[16],[17]	11	17	18		
NCLHD9	GlobalFiler™					
	12,[15.3],16	20,[22],[24],25	11,[13],[14]	14,16,[17],[18]	11,12,[13]	
3e	[8],[10],11,13	[12],13,14	13,[16],[17]	20,21,[24]	8,11,[12]	10,11,[12]
	[12],15,18	12,13,14,16	30,31.2,[32.2]	11,15,[16],[17]	X,[Y]	[10],11,12
	[18],20,[22],25			16,[28.2],33.2,[37]	[5],[8],9.3	[8],11
	14,[16],17	11			2	
NHBTVJ	Identifiler® Plus					
		20,22,24,25		14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14			8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2		X,Y	10,11,12
	18,20,22,25				5,8,9.3	8,11
	14,16,17					
NP8WF8	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
NR2HBJ	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
NTA49D	PowerPlex® Fusion					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,9,[12]	12,13,[17]		5,8,9.3	[8],11,11
	14,16,17	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

NVZU8J	GlobalFiler™					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25			16,28.2,33.2,37	5,8,9.3
	14,16,17	11			2	
NXRNBF	PowerPlex® Fusion					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25	9,12	12,13,17		5,8,9.3
	14,16,17	11			8,11	
NYWHL7	PowerPlex® Fusion 6C					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3
	14,16,17	11	17	18	8,11	
NYXNCT	GlobalFiler™					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25			16,28.2,33.2,37	5,8,9.3
	14,16,17	11			2	
P2YXEU	GlobalFiler™ (STRmix)					
		12,[15.3],16	20,22,24,25	11,[13],[14]	14,16,[17],18	11,12,[13]
	3e	[8],[10],11,13	[12],13,[14]	13,16,[17]	20,21,[24]	8,11,[12]
		[12],15,[18]	12,13,14,16	30,31.2,[32.2]	11,15,[16],17	X,[Y]
		18,20,[22],25			16,[28.2],33.2,[37]	[5],8,9.3
	14,[16],[17]	11			[8],11	
					2	
P3ADR8	GlobalFiler™ (STRmix)					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25			16,28.2,33.2,37	5,8,9.3
	14,16,17	11			2	
P437NQ	PowerPlex® Fusion 6C					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3
	14,16,17	11	17	18	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 3e - STR Results

P6J3FQ	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
P9HECQ	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
PCFM78	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
PGVTBU	GlobalFiler™					
	12,[15.3],16	20,22,24,25	11,[13],[14]	14,16,[17],[18]	11,12,[13]	
3e	[8],[10],11,13	[12],13,14	13,[16],[17]	20,21,[24]	8,[11],[12]	10,11,[12]
	[12],15,18	12,13,14,[16]	30,[31.2],[32.2]	11,15,16,[17]	X,[Y]	[10],11,12
	[18],20,22,25			16,[28.2],33.2,[37]	5,[8],9.3	[8],11
	14,[16],[17]	11			2	
PLPMT9	GlobalFiler™ (STRmix)					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
PYA3W8	GlobalFiler™ (STRmix)					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
Q6EPZF	PowerPlex® Fusion 5C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17		5,8,9.3	8,11
	14,16,17	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

QDMWMN	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
QG92FE	GlobalFiler™					
	12,[15.3],16	20,[22],[24],25	11,[13],[14]	14,16,[17],[18]	11,12	
3e	[10],11,13	[12],13,14	13,16,[17]	20,21	8,11,[12]	10,11,[12]
	[12],15,18	12,[13],14,[16]	30,31.2,[32.2]	11,15,[16],[17]	X,[Y]	[10],11,12
	[18],20,[22],25			16,33.2,[37]	[5],[8],9.3	[8],11
	14,[16],17	11			2	
QRA2W7	PowerPlex® 6C, GlobalFiler™					
	12,[15.3],16	20,[22],[24],25	11,[13],[14]	14,16,17,18	11,12,[13]	
3e	[8],[10],11,13	[12],13,14	13,16,[17]	20,21,[24]	8,11,[12]	10,11,[12]
	[12],15,18	12,13,14,16	30,31.2,[32.2]	11,15,16,17	X,X,[Y]	[10],11,12
	18,20,[22],25			16,[28.2],33.2,[37]	[5],[8],9.3,9.3	[8],11,11
	14,[16],17	11			2	
R74GPR	GlobalFiler™					
	12,[15.3],16	20,22,24,[25]	11,[13],[14]	14,16,17,[18]	11,12,[13]	
3e	[8],10,11,13	[12],13,[14]	13,16,[17]	[20],21,[24]	8,11,[12]	10,11,[12]
	12,15,18	12,13,14,16	30,[31.2],[32.2]	11,15,16,17	X,[Y]	[10],11,12
	18,20,[22],25			16,[28.2],33.2,37	5,8,9.3	[8],11
	14,[16],17	11			2	
R83UH8	GlobalFiler™ (STRmix (manual inclusion/exclusion of victim/suspect))					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
R8JDHQ	GlobalFiler™					
	[12],[15.3],16	20,22,24,25	11,[13],[14]	14,16,[17],[18]	11,12,13	
3e	[8],[10],[11],13	[12],13,[14]	13,[16],[17]	20,21,[24]	8,11,[12]	10,11,[12]
	[12],15,18	12,13,14,[16]	30,[31.2],[32.2]	11,15,[16],17	X,[Y]	[10],11,12
	18,20,22,25			16,[28.2],33.2,[37]	5,8,9.3	[8],11
	14,[16],[17]	11			2	
RB283B	GlobalFiler™ (STRmix)					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	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

RBJPDQ	GlobalFiler™						
		[12],[15.3],16	[20],22,24,[25]	11,[13],[14]	14,16,17,18	11,12,[13]	
	3e	8,10,11,13	[12],[13],[14]	13,[16],[17]	20,21,[24]	8,[11],[12]	10,11,[12]
		[12],15,18	12,13,14,16	30,31.2,[32.2]	11,15,16,17	X,[Y]	[10],[11],12
		[18],20,22,25			16,[28.2],33.2,[37]	5,8,9.3	[8],11
	14,[16],[17]	11			2		
RCU4R6	GlobalFiler™						
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
		18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2		
RHWA6M	PowerPlex® Fusion 6C						
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
		18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18			
RLFQW3	PowerPlex® Fusion 6C						
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
		18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18			
RPJQQR	GlobalFiler™						
		12,[15.3],16	20,22,24,25	11,[13],[14]	14,16,[17],18	11,12,[13]	Not Tested
	3e	8,10,11,13	[12],[13],14	13,16,[17]	[20],[21],[24]	8,11,[12]	10,11,[12]
		[12],15,[18]	12,13,14,16	30,31.2,[32.2]	11,15,16,17	X,[Y]	[10],[11],12
		18,20,[22],25	Not Tested	Not Tested	16,[28.2],33.2,[37]	[5],[8],9.3	[8],11
	14,[16],[17]	11	Not Tested	Not Tested	2		
RV4NEF	GlobalFiler™						
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
		18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2		
RVADT7	GlobalFiler™						
		12,[15.3],16	20,[22],[24],25	11,11,[13],[14]	14,16,[17],[18]	11,12,[13]	
	3e	[8],[10],11,13	[12],[13],14	13,16,[17]	20,21,[24]	8,11,[12]	10,11,[12]
		[12],15,18	12,[13],14,[16]	30,31.2,[32.2]	11,15,[16],[17]	X,X,[Y]	[10],11,12
		[18],20,[22],25			16,[28.2],33.2,[37]	[5],[8],9.3,9.3	[8],11,11
	14,[16],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

T67ZX8	PowerPlex® Fusion					
	12,15.3,16	[20],22,24,[25]	11,13,14	14,16,17,18	11,12,13	
	3e 8,10,[11,13]	12,13,[14]	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17		5,8,9.3	8,11
	14,16,[17]	11				
T6PA4A	PowerPlex® Fusion					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
	3e 8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17		5,8,9.3	8,11
	14,16,17	11				
TAGEVT	GlobalFiler™					
	12,[15.3],16	20,[22],[24],25	11,[13],[14]	14,16,[17],[18]	11,12,[13]	
	3e [8],[10],11,13	[12],13,14	13,16,[17]	20,21,[24]	8,11,[12]	10,11,[12]
	[12],15,18	12,[13],14,[16]	30,31.2,[32.2]	11,15,[16],[17]	X,[Y]	[10],11,12
	[18],20,[22],25			16,[28.2],33.2,[37]	[5],[8],9.3	[8],11
	14,[16],17	11		2		
TAL9JL	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
	3e 8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
TBYC77	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
	3e 8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
TCRFJD	PowerPlex® Fusion					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
	3e 8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17		5,8,9.3	8,11
	14,16,17	11				
TED64Q	GlobalFiler™					
	12,[15.3],16	[20],22,24,[25]	11,[13],[14]	14,16,17,18	11,12,[13]	
	3e [8],10,11,13	[12],13,[14]	13,[16],[17]	[20],21,[24]	8,[11],12	10,11,[12]
	[12],15,[18]	12,13,14,16	30,[31.2],[32.2]	11,15,16,17	X,[Y]	[10],11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	[8],11
	14,[16],[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

TFM8PP	GlobalFiler™						
		12,15.3,16	20,22,24,25	11,[13],[14]	14,16,17,[18]	11,12,[13]	
	3e	[8],[10],11,13	[12],[13],[14]	13,[16],[17]	20,21,[24]	8,[11],[12]	10,11,[12]
		[12],15,18	12,13,14,16	30,[31.2],[32.2]	11,15,16,17	X,[Y]	[10],11,12
		18,20,22,25			16,28.2,33.2,[37]	5,[8],9.3	[8],11
	14,[16],[17]	11			2		
TVJ283	GlobalFiler™						
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,[Y]	10,11,12
		18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2		
TWYNXC	Identifiler® Plus						
			20,22,24,25		14,16,17,18	11,12,13	
	3e	8,10,11,13	12,13,14			8,11,12	10,11,12
		12,15,18	12,13,14,16	30,31.2,32.2		X,Y	10,11,12
		18,20,22,25				5,8,9.3	8,11
	14,16,17						
TY4GQP	PowerPlex® Fusion 6C (STRmix)						
		12,[15.3],16	20,[22],[24],25	11,[13],[14]	14,16,17,18	11,12,[13]	
	3e	[8],10,11,13	[12],[13],[14]	13,16,[17]	20,21,[24]	8,11,[12]	10,11,[12]
		[12],15,[18]	12,13,14,16	30,31.2,[32.2]	11,15,[16],[17]	X,[Y]	[10],11,12
		18,20,[22],25	9,[12]	12,13,[17]	16,[28.2],33.2,[37]	[5],[8],9.3	[8],11
	14,[16],[17]	11	17	18			
TYZ4CM	GlobalFiler™						
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
		18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2		
U4RFJB	NGM SElect						
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18		
	3e		12,13,14	13,16,17	20,21,24		10,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	
		18,20,22,25			16,28.2,33.2,37	5,8,9.3	
	14,16,17						
U6N9L3	GlobalFiler™						
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
		18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	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

UZ6BU6	PowerPlex® Fusion					
	12,15.3,16	20,22,24,25	11,11,(13,14)	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,(32.2)	11,15,16,17	X,X,(Y)	10,11,12
	18,20,22,25	9,9,(12)	12,13,(17)		(5,8),9.3,9.3	(8),11,11
	14,16,17	11				
V392KZ	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
V63MFC	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
VCYRGL	PowerPlex® ESX16 Fast					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18		
3e		12,13,14	13,16,17	20,21,24		10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	
	18,20,22,25				5,8,9.3	
	14,16,17					
WVD8Z2	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
W43EYX	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
WJUA93	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	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

WPMLHZ	GlobalFiler™					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25			16,28.2,33.2,37	5,8,9.3
	14,16,17	11			2	
WT6BU4	GlobalFiler™ (STRmix)					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25			16,28.2,33.2,37	5,8,9.3
	14,16,17	11			2	
X38NDX	GlobalFiler™					
		12,[15.3],16	20,22,24,[25]	11,[13],[14]	14,16,17,18	11,12,[13]
	3e	8,[10],11,13	[12],13,14	13,16,[17]	[20],[21],[24]	8,[11],[12]
		[12],15,[18]	12,13,14,16	30,[31.2],[32.2]	11,15,16,[17]	X,[Y]
		18,20,22,25			16,[28.2],[33.2],[37]	5,8,9.3
	14,[16],17	11			2	
XCB72Z	GlobalFiler™					
		[12],[15.3],16	20,22,24,25	11,13,14	14,16,17,18	[11],12,[13]
	3e	8,10,11,13	[12],13,[14]	13,[16],[17]	[20],[21],[24]	8,11,12
		12,15,18	12,13,14,16	30,[31.2],[32.2]	11,15,16,17	X,[Y]
		18,20,22,25			16,28.2,33.2,37	5,8,9.3
	14,[16],[17]	11			2	
XEZ3JL	PowerPlex® Fusion 6C					
		12,[15.3],16	20,[22],[24],25	11,[13],[14]	14,16,[17],[18]	11,12,[13]
	3e	[8],[10],11,13	[12],13,[14]	13,[16],[17]	20,21,[24]	8,11,[12]
		[12],15,18	12,[13],14,[16]	30,31.2,[32.2]	11,15,[16],[17]	X,[Y]
		18,20,22,25	9,[12]	12,13,[17]	16,[28.2],[33.2],[37]	[5],[8],9.3
	14,[16],17	11	17	18	[8],11	
XFPZGX	GlobalFiler™					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25			16,28.2,33.2,37	5,8,9.3
	14,16,17	11			2	
XXCUFW	PowerPlex® Fusion 6C					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3
	14,16,17	11	17	18	[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 3e - STR Results

XYQQX2	GlobalFiler™ (STRmix)					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25			16,28.2,33.2,37	5,8,9.3
	14,16,17	11			2	
Y4EDY8	PowerPlex® Fusion					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25	9,12	12,13,17		5,8,9.3
	14,16,17	11			8,11	
Y7Z3JK	GlobalFiler™					
		12,[15.3],16	20,22,[24],25	11,[13],[14]	14,16,[17],[18]	11,12,[13]
	3e	[8],[10],11,13	[12],13,[14]	13,[16],[17]	[20],[21],[24]	8,[11],[12]
		[12],15,18	12,[13],14,[16]	30,31.2,[32.2]	11,15,[16],[17]	X,[Y]
		[18],20,22,25			16,[28.2],33.2,[37]	[5],[8],9.3
	14,[16],17	11			[8],11	
					2	
Y8EYVW	PowerPlex® Fusion					
		[12],[15.3],16	20,22,24,25	11,13,14	14,16,17,18	[11],12,[13]
	3e	8,10,[11],[13]	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,[Y]
		18,20,22,25	9,[12]	12,13,17		5,8,9.3
	14,16,17	11			[8],11	
YD39YM	GlobalFiler™					
		[12],[15.3],16	20,22,24,25	11,[13],[14]	14,16,17,18	11,12,[13]
	3e	[8],10,11,13	[12],13,[14]	13,[16],[17]	20,21,[24]	8,[11],[12]
		[12],15,[18]	12,13,14,16	30,[31.2],[32.2]	11,15,16,17	X,[Y]
		18,20,22,25			16,28.2,33.2,[37]	5,8,9.3
	14,[16],[17]	11			[8],11	
					2	
YHDY92	PowerPlex® Fusion 5C					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25	9,12	12,13,17		5,8,9.3
	14,16,17	11			8,11	
YJ7ZLY	PowerPlex® Fusion 6C					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3
	14,16,17	11	17	18	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 3e - STR Results

YJTW2Z	GlobalFiler™					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,23,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25			16,28.2,33.2,37	5,8,9.3
	14,16,17	11			2	
YTC6CU	PowerPlex® Fusion 6C					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3
	14,16,17	11	17	18		
YWEB4Z	GlobalFiler™ (STRmix)					
		12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25			16,28.2,33.2,37	5,8,9.3
	14,16,17	11			2	
YXAGF8	GlobalFiler™					
		12,15.3,16	20,22,24,25	11,[13],[14]	14,16,17,[18]	11,12,[13]
	3e	[8],[10],11,13	[12],13,14	13,[16],[17]	20,21,[24]	8,[11],[12]
		[12],15,[18]	12,13,14,16	30,31.2,[32.2]	11,15,16,[17]	X,[Y]
		18,20,[22],25			16,[28.2],[33.2],[37]	5,[8],9.3
	14,[16],17	11			2	
YYH7LH	PowerPlex® 21					
		12,15.3,16	20,22,24,25		14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14		20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2		X,Y
		18,20,22,25	9,12	12,13,17		5,8,9.3
	14,16,17				8,11	
YZT9A2	PowerPlex® Fusion					
		12,15.3,16	20,22,24,25	11,11,[13,14]	14,16,17,18	11,12,13
	3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12
		12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y
		18,20,22,25	9,9,[12]	12,13,17		5,8,9.3
	14,16,17	11			8,11	
Z6NMPJ	GlobalFiler™					
		12,[15.3],16	20,[22],[24],25	11,[13],[14]	14,16,[17],[18]	11,12,[13]
	3e	[8],[10],11,13	[12],13,14	13,16,[17]	20,21,[24]	8,11,[12]
		[12],15,18	12,[13],14,[16]	30,31.2,[32.2]	11,15,[16],[17]	X,[Y]
		[18],20,[22],25			16,[28.2],[33.2],[37]	[5],[8],9.3
	14,[16],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

ZADY9Y	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
ZKJ878	GlobalFiler™					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25			16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11			2	
ZLPP63	PowerPlex® Fusion					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17		5,8,9.3	8,11
	14,16,17	11				
ZRYR8X	PowerPlex® Fusion 6C					
	12,15.3,16	20,22,24,25	11,13,14	14,16,17,18	11,12,13	
3e	8,10,11,13	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	12,13,14,16	30,31.2,32.2	11,15,16,17	X,Y	10,11,12
	18,20,22,25	9,12	12,13,17	16,28.2,33.2,37	5,8,9.3	8,11
	14,16,17	11	17	18		
ZWNZHW	GlobalFiler™					
	12,[15.3],16	20,22,24,25	11,11,[13],[14]	14,16,[17],[18]	11,12,[13]	
3e	[8],[10],11,13	[12],13,14	13,16,[17]	20,21,[24]	8,11,[12]	10,11,[12]
	[12],15,18	12,[13],14,[16]	30,31.2,[32.2]	11,15,[16],[17]	X,X,[Y]	[10],11,12
	[18],20,[22],25			16,[28.2],33.2,[37]	[5],[8],9.3,9.3	[8],11,11
	14,[16],17	11			2	
ZZ9E2J	GlobalFiler™					
	12,[15.3],16	20,[22],[24],25	11,[13],[14]	14,16,[17],[18]	11,12,[13]	
3e	[8],[10],11,13	[12],13,14	13,16,[17]	20,21,[24]	8,11,[12]	10,11,[12]
	[12],15,18	12,[13],14,[16]	30,31.2,[32.2]	11,15,[16],[17]	X,[Y]	[10],11,12
	[18],20,[22],25			16,[28.2],33.2,[37]	[5],[8],9.3	8,11
	14,[16],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 3sp - STR Results

22JGNH	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
						Not Tested
3sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	Not Tested	Not Tested	28.2,37	5,8
		14,16	11	Not Tested	Not Tested	2
2BMN64	Identifiler® Plus		22,24		17,18	12,13
3sp		8,10	12,13			8,12
		12,15	13,16	30,32.2		X,Y
		18,22				5,8
		14,16				8,11
2UEATT	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
3sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22			28.2,37	5,8
		14,16	11			2
39C99G	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
3sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22			28.2,37	5,8
		14,16	11			2
3L488R	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
3sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22			28.2,37	5,8
		14,16	11			2
3MT9XV	PowerPlex® Fusion 6C					
		15.3,16	22,24	13,14	17,18	12,13
3sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	9,12	13,17	28.2,37	5,8
		14,16	11	17	18	8,11
4BJTQP	PowerPlex® Fusion 6C					
		15.3,16	22,24	13,14	17,18	12,13
3sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	9,12	13,17	28.2,37	5,8
		14,16	11	17	18	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 3sp - STR Results

4FRBR4	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
4JRV3V	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
4K3UYP	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
4TY2RQ	PowerPlex® Fusion 6c						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
		14,16	11	17	18		
4V3WBT	PowerPlex® Fusion 6C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
		14,16	11	17	18		
4Y8FG2	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
63288Q	PowerPlex® Fusion 5C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
		14,16	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

66Q7EG	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
6JBLK2	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
		14,16	11				
6KLX8Q	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
6N3WBR	PowerPlex® Fusion 6C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
		14,16	11	17	18		
6QTU9X	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
6XQJP3	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
7DFDCD	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	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

7HAK3T	GlobalFiler™ (STRmix)					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28,2,37	5,8	8,11
	14,16	11			2	
7NZHKC	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28,2,37	5,8	8,11
	14,16	11			2	
7NZVCR	GlobalFiler™ (STRmix)					
	15,3,16	22,24	13,14	14,17,18	12,13	
3sp	8,10	12,13	13,16,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28,2,37	5,8,9,3	8,11
	14,16	11			2	
7PUN8B	Identifiler® Plus					
		22,24		17,18	12,13	
3sp	8,10	12,13			8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22				5,8	8,11
	14,16					
7T7N7M	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28,2,37	5,8	8,11
	14,16	11			2	
7TVCJY	Identifiler® Plus					
		22,24		17,18	12,13	
3sp	8,10	12,13			8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22				5,8	8,11
	14,16					
7X4K3N	PowerPlex® Fusion 6C					
	12,15,3,16	22,24	11,13,14	17,18	12,13	
3sp	8,10,11	12,13	13,16,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	11,16,17	X,Y	10,12
	18,22	9,12	13,17	28,2,37	5,8,9,3	8,11
	14,16	11	17	18		

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

7X63RR	GlobalFiler™ (STRmix)					
	12,15,3,16	22,24	13,14	16,17,18	11,12,13	
3sp	8,10	12,13,14	13,16,17	20,21,24	8,11,12	10,11,12
	12,15,18	13,14,16	30,31,2,32.2	15,16,17	X,Y	10,11,12
	18,20,22			28,2,37	5,8,9,3	8,11
	14,16,17	11			2	
87VDWZ	Identifiler® Plus					
		22,24		17,18	12,13	
3sp	8,10	12,13			8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22				5,8	8,11
	14,16					
8FX678	PowerPlex® Fusion 6C					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28,2,37	5,8	8,11
	14,16	11	17	18		
8FZUDP	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28,2,37	5,8	8,11
	14,16	11			2	
8GQTB3	Investigator® 24plex					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28,2,37	5,8	8,11
	14,16	11				
8P4CL8	PowerPlex® Fusion 6C					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,16,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28,2,37	5,8	8,11
	14,16	11	17	18		
92YHGQ	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28,2,37	5,8	8,11
	14,16	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

93UNTX	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
9BKEAY	PowerPlex® ESI17 and ESX17					
	15.3,16	22,24	13,14	17,18		
3sp		12,13	13,17	21,24		11,12
	12,15	13,16	30,32.2	16,17	X,Y	
	18,22			28.2,37	5,8	
	14,16					
9FF4WX	PowerPlex® Fusion 6C					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
9HFEJK	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
9R9KLY	Identifiler® Plus					
		22,24		17,18	12,13	
3sp	8,10	12,13			8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22				5,8	8,11
	14,16					
9RUXAB	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
ALZT2K	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	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

AP3YD6	PowerPlex® Fusion 6C					
	[12],15.3,16	[20],22,24,[25]	[11],13,14	[14],17,18	12,13	
3sp	8,10,[11]	12,13	13,17	21,24	8,12	11,12
	12,15,[18]	13,16	30,32.2	16,17	X,Y	10,12
	18,22,[25]	9,12	13,17	[16],28.2,[33.2],37	5,8	8,11
	14,16	11	17	18		
ARJJZK	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
AV3BCM	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
BGJKYL	PowerPlex® Fusion 6C					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
BKLEZB	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
BY3C6C	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
C6NQ3H	PowerPlex® Fusion 6C					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		

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

C6YTNG	GlobalFiler™ (TrueAllele)						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
CBTXVK	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
CQLPFL	GlobalFiler™ (STRmix)						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
CRG9HM	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
CUNQFH	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
CZRXT	Identifiler® Plus						
			22,24		17,18	12,13	
	3sp	8,10	12,13			8,12	11,12
		12,15	13,16	30,32.2		X,Y	10,12
		18,22				5,8	8,11
		14,16					
D39GFF	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	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

DDRVHH	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
	3sp	8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22			28.2,37	5,8
		14,16	11			2
DJJZA2	PowerPlex® Fusion 6C					
		15.3,16	22,24	13,14	17,18	12,13
	3sp	8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	9,12	13,17	28.2,37	5,8
		14,16	11	17	18	
DPQWBA	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
	3sp	8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22			28.2,37	5,8
		14,16	11			2
DYBZ3L	GlobalFiler™ (STRmix)					
		15.3,16	22,24	13,14	17,18	12,13
	3sp	8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22			28.2,37	5,8
		14,16	11			2
E46G98	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
	3sp	8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22			28.2,37	5,8
		14,16	11			2
EE2X6G	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
	3sp	8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22			28.2,37	5,8
		14,16	11			2
F4J33M	GlobalFiler™ (STRmix)					
		15.3,16	22,24	13,14	17,18	12,13
	3sp	8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22			28.2,37	5,8
		14,16	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

FBZ4BR	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
FCCMFV	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,[11],12
		18,22			28.2,37	5,8,[9.3]	8,11
		14,16	11			2	
FHK28R	Identifiler® Plus						
			22,24		17,18	12,13	
	3sp	8,10	12,13			8,12	11,12
		12,15	13,16	30,32.2		X,Y	10,12
		18,22				5,8	8,11
		14,16					
FMVPQF	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
G4D67G	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
GHZKP4	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
GNHNFx	PowerPlex® Fusion 6C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
		14,16	11	17	18		

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

GQN96J	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
GRZ9JL	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
GV4GTJ	GlobalFiler™ (STRmix)						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
GYGUKC	PowerPlex® Fusion 6C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18			
HHAMVF	GlobalFiler™ (STRmix)						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,20,22			28.2,37	5,8	8,11
	14,16	11			2		
HKU4YF	PowerPlex® Fusion 6C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18			
HPABME	PowerPlex® Fusion 6C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18			

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

J2JY2B	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
JCJ2DE	PowerPlex® Fusion 6C					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
JFKZWK	PowerPlex® Fusion					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
JQJXGY	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
JQXUUB	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
JVBABA	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
JYDG3F	GlobalFiler™ (STRmix)					
	15,3,16	20,22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,20,22			28.2,37	5,8	8,11
	14,16	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

K6DEQA	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
K7QP4G	GlobalFiler™ (STRMIX)						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
KBHN6C	PowerPlex® Fusion 6C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
		14,16	11	17	18		
KP4YXA	PowerPlex® Fusion 6C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
		14,16	11	17	18		
KRBQWV	PowerPlex® Fusion 6C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,16,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
		14,16	11	17	18		
KXJHFN	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
L38KZY	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	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

LLGBME	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
LUWHEX	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
M32QDB	PowerPlex® Fusion 6C						
		15.3,16	22,24	11,13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	11,16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18			
M6M467	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
MD2PEA	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
MJLHCA	PowerPlex® Fusion 6C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18			
MUC2YV	GlobalFiler™ (STRmix V2.5.11)						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	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

N27LFG	PowerPlex® Fusion 6C					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
NCLHD9	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
NHBTJV	Identifiler® Plus					
		22,24		17,18	12,13	
3sp	8,10	12,13			8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22				5,8	8,11
	14,16					
NP8WF8	PowerPlex® Fusion 6C					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
NR2HBJ	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
NTA49D	PowerPlex® Fusion					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
NVZU8J	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	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

NXRNBF	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
NYWHL7	PowerPlex® Fusion 6C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18			
NYXNCT	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		15,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
P2YXEU	GlobalFiler™ (STRmix)						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
P3ADR8	GlobalFiler™ (STRmix)						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8,9.3	8,11
	14,16	11			2		
P437NQ	PowerPlex® Fusion 6C						
		15.3,16	22,24,[25]	13,14	17,18	12,13	
	3sp	8,10,[11]	12,13	13,[16],17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,[20],22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18			
P6J3FQ	PowerPlex® Fusion 6C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18			

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

P9HECQ	PowerPlex® Fusion 6C					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,16,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
PCFM78	PowerPlex® Fusion 6C					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
PGVTBU	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
PLPMT9	GlobalFiler™ (STRmix)					
	12,15.3,16	22,24	11,13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,11,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
PYA3W8	GlobalFiler™ (STRmix)					
	15.3,16	22,24	11,13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
Q6EPZF	PowerPlex® Fusion 5C					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
QDMWMN	PowerPlex® Fusion 6C					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		

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

QG92FE	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	{12,13}	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	{16,17}	X,Y	{10,12}
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
QRA2W7	PowerPlex® 6C, GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,[23],24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
R74GPR	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
R83UH8	GlobalFiler™ (STRmix (manual inclusion/exclusion of victim/suspect))					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
R8JDHQ	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,[11],12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
RB283B	GlobalFiler™ (STRmix)					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
RBJPDQ	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	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

RCU4R6	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
RHWA6M	PowerPlex® Fusion 6C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,16,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
		14,16	11	17	18		
RLFQW3	PowerPlex® Fusion 6C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
		14,16	11	17	18		
RPJQQR	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	Not Tested
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	Not Tested	Not Tested	28.2,37	5,8	8,11
		14,16	11	Not Tested	Not Tested	2	
RV4NEF	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
RVADT7	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
T67ZX8	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
		14,16	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

T6PA4A	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
TAGEVT	GlobalFiler™						
		15.3,16	{22,24}	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
TAL9JL	PowerPlex® Fusion 6C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18			
TBYC77	PowerPlex® Fusion 6C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18			
TCRFJD	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
TED64Q	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
TFM8PP	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	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

TVJ283	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,[16],17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
TWYNXC	Identifiler® Plus						
			22,24		17,18	12,13	
	3sp	8,10	12,13			8,12	11,12
		12,15	13,16	30,32.2		X,Y	10,12
		18,22				5,8	8,11
		14,16					
TY4GQP	PowerPlex® Fusion 6C (STRmix)						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
		14,16	11	17	18		
TYZ4CM	GlobalFiler™						
		15.3,16,[-]	22,24,[25,-]	13,14,[-]	17,18,[-]	12,13,[-]	
	3sp	8,10,[-]	12,13,[-]	13,[16],17	21,24,[-]	8,12,[-]	11,12,[-]
		12,15,[-]	13,16,[-]	30,32.2,[-]	16,17,[-]	X,Y	10,12,[-]
		18,22,[-]			28.2,37,[-]	5,8,[-]	8,11
		14,16,[-]	11			2	
U4RFJB	NGM SElect						
		15.3,16	22,24	13,14	17,18		
	3sp		12,13	13,17	21,24		11,12
		12,15	13,16	30,32.2	16,17	X,Y	
		18,22			28.2,37	5,8	
		14,16					
U6N9L3	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
UZ6BU6	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
		14,16	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

V392KZ	PowerPlex® Fusion 6C					
	12,15,3,16	22,24	13,14	14,17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	16,28.2,37	5,8	8,11
	14,16	11	17	18		
V63MFC	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
VCYRGL	PowerPlex® ESX16 Fast					
	15.3,16	22,24	13,14	17,18		
3sp		12,13	13,17	21,24		11,12
	12,15	13,16	30,32.2	16,17	X,Y	
	18,22				5,8	
	14,16					
WV8Z2Z	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
W43EYX	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
WJUA93	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
WPMLHZ	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	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

WT6BU4	GlobalFiler™ (STRmix)					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
X38NDX	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
XCB72Z	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
XEZ3JL	PowerPlex® Fusion 6C					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
XFPZGX	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
XXCUFW	PowerPlex® Fusion 6C					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
XYQQX2	GlobalFiler™ (STRmix)					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10,11	12,13	13,16,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22,25			28.2,37	5,8,9,3	8,11
	14,16	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

Y4EDY8	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
Y7Z3JK	GlobalFiler™					
	15.3,16	{22,24}	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
Y8EYVW	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,[11]
	14,16	11				
YD39YM	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
YHDY92	PowerPlex® Fusion 5C					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
YJ7ZLY	PowerPlex® Fusion 6C					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
YJTW2Z	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	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

YTC6CU	PowerPlex® Fusion 6C					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	11,16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
YWEB4Z	GlobalFiler™ (STRmix)					
	[12],15,3,16	22,24	[11],13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22,[25]			28.2,37	5,8,[9.3]	8,11
	14,16	11			2	
YXAGF8	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
YYH7LH	PowerPlex® 21					
	15,3,16	22,24		17,18	12,13	13,16
3sp	8,10	12,13		21,24	8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16					
YZT9A2	PowerPlex® Fusion					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
Z6NMPJ	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
ZADY9Y	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	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

ZKJ878	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
ZLPP63	PowerPlex® Fusion					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
ZRYR8X	PowerPlex® Fusion 6C					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
ZWNZHW	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
ZZ9E2J	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	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

22JGNH	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	Not Tested
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	Not Tested	Not Tested	17,25.2	6,9	11,14
	14,18	11	Not Tested	Not Tested	2	
2BMN64	Identifiler® Plus					
		19,24		16,17	8,12	
4	9	14			9,12	9,11
	14,17	13	29,30		X,Y	11
	21,24				6,9	11,14
	14,18					
2UEATT	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
33DLJ3	Identifiler® Plus					
		19,24		16,17	8,12	
4	9	14			9,12	9,11
	14,17	13	29,30		X,Y	11
	21,24				6,9	11,14
	14,18					
39C99G	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
3L488R	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
3MT9XV	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	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

4BJTQP	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
4FRBR4	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
4JRV3V	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
4K3UYP	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
4TY2RQ	PowerPlex® Fusion 6c					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
4V3WBT	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
4Y8FG2	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	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

63288Q	PowerPlex® Fusion 5C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
66Q7EG	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
6JBLK2	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
6KLX8Q	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
6N3WBR	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
6QTU9X	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
6XQJP3	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	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

7DFDCD	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
7HAK3T	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
7NZHKC	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
7NZVCR	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
7PUN8B	Identifiler® Plus					
		19,24		16,17	8,12	
4	9,9	14,14			9,12	9,11
	14,17	13,13	29,30		X,Y	11,11
	21,24				6,9	11,14
	14,18					
7T7N7M	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
7TV CJY	Identifiler® Plus					
		19,24		16,17	8,12	
4	9	14			9,12	9,11
	14,17	13	29,30		X,Y	11
	21,24				6,9	11,14
	14,18					



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

7X4K3N	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
7X63RR	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
87VDWZ	Identifiler® Plus					
		19,24		16,17	8,12	
4	9	14			9,12	9,11
	14,17	13	29,30		X,Y	11
	21,24				6,9	11,14
	14,18					
8FX678	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
8FZUDP	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
8GQTB3	Investigator® 24plex					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11				
8P4CL8	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	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

92YHGQ	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
93AU73	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
93UNTX	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
9BKEAY	PowerPlex® ESI17 and ESX17					
	16,3,17,3	19,24	10,11	16,17		
4		14	15,16	15,18		9,11
	14,17	13	29,30	15,16	X,Y	
	21,24			17,25.2	6,9	
	14,18					
9FF4WX	PowerPlex® Fusion 6C (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	{X,Y}	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
9HFEJK	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
9KP483	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	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

9R9KLY	Identifiler® Plus					
		19,24		16,17	8,12	
4		9	14		9,12	9,11
		14,17	13	29,30	X,Y	11
		21,24			6,9	11,14
		14,18				
9RUXAB	GlobalFiler™					
		16.3,17.3	19,24	10,11	16,17	8,12
4		9,9	14,14	15,16	15,18	9,12
		14,17	13,13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11			2
ACA38K	PowerPlex® Fusion 6C (STRmix)					
		16.3,17.3	19,24	10,11	16,17	8,12
4		9,9	14,14	15,16	15,18	9,12
		14,17	13,13	29,30	15,16	X,Y
		21,24	8,13	5,21	17,25.2	6,9
		14,18	11	17	17	11,14
ALZT2K	GlobalFiler™					
		16.3,17.3	19,24	10,11	16,17	8,12
4		9	14	15,16	15,18	9,12
		14,17	13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11			11,14
AP3YD6	PowerPlex® Fusion 6C					
		16.3,17.3	19,24	10,11	16,17	8,12
4		9,9	14,14	15,16	15,18	9,12
		14,17	13,13	29,30	15,16	X,Y
		21,24	8,13	5,21	17,25.2	6,9
		14,18	11	17	17	11,14
ARJJK	GlobalFiler™					
		16.3,17.3	19,24	10,11	16,17	8,12
4		9,9	14,14	15,16	15,18	9,12
		14,17	13,13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11			11,14
AV3BCM	GlobalFiler™					
		16.3,17.3	19,24	10,11	16,17	8,12
4		9,9	14,14	15,16	15,18	9,12
		14,17	13,13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11			11,14

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

BGJKYL	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
BKLEZB	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
BU6ZZY	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
BY3C6C	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
C6NQ3H	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
C6YTNG	GlobalFiler™ (TrueAllele)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
CBTXVK	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	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

CLUXEY	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
CQLPFL	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
CRG9HM	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
CUNQFH	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
CZRXT	Identifiler® Plus					
		19,24		16,17	8,12	
4	9,9	14,14			9,12	9,11
	14,17	13,13	29,30		X,Y	11,11
	21,24				6,9	11,14
	14,18					
D39GFF	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
DDRVHH	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	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

DJZA2	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
DPQWBA	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
DYBZ3L	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
E46G98	GlobalFiler™ (STRmix)					
	16,3,17,3	{19,24}	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
EE2X6G	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
F4J33M	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
FBZ4BR	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	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

FCCMFV	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
FHK28R	Identifiler® Plus					
		19,24		16,17	8,12	
4	9	14			9,12	9,11
	14,17	13	29,30		X,Y	11
	21,24				6,9	11,14
	14,18					
FMVPQF	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
G4D67G	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
GHZKP4	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
GNHNFV	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
GQN96J	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21		6,9	11,14
	14,18	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

GRZ9JL	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
GV4GTJ	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
GYGUKC	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
HHAMVF	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
HKU4YF	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
HPABME	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
J2JY2B	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	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

JCJ2DE	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
JFKZWK	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
JQJXGY	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
JQXUUB	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
JVBABA	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
JYDG3F	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
K6DEQA	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	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

K7QP4G	GlobalFiler™					
		16.3,17.3	19,24	10,11	16,17	8,12
	4	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
	14,18	11			2	
KBHN6C	PowerPlex® Fusion 6C					
		16.3,17.3	19,24	10,11	16,17	8,12
	4	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24	8,13	5,21	17,25.2	6,9
	14,18	11	17	17		
KP4YXA	PowerPlex® Fusion 6C (STRMix)					
		16.3,17.3	19,24	10,11	16,17	8,12
	4	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24	8,13	5,21	17,25.2	6,9
	14,18	11	17	17		
KRBQWV	PowerPlex® Fusion 6C					
		16.3,17.3	19,24	10,11	16,17	8,12
	4	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24	8,13	5,21	17,25.2	6,9
	14,18	11	17	17		
KXJHFN	GlobalFiler™					
		16.3,17.3	19,24	10,11	16,17	8,12
	4	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
	14,18	11			2	
L38KZY	GlobalFiler™					
		16.3,17.3	19,24	10,11	16,17	8,12
	4	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
	14,18	11			2	
LLGBME	PowerPlex® Fusion					
		16.3,17.3	19,24	10,11	16,17	8,12
	4	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24	8,13	5,21		6,9
	14,18	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

LUWHEX	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
M32QDB	PowerPlex® Fusion 6c					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
M6M467	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
MD2PEA	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
MJLHCA	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
MUC2YV	GlobalFiler™ (STRmix V2.5.11)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
N27LFG	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	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

N7GLQM	GlobalFiler™					
		16,3,17,3	19,24	10,11	16,17	8,12
	4	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11		2	
NCLHD9	GlobalFiler™					
		16,3,17,3	19,24	10,11	16,17	8,12
	4	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11		2	
NHBTJV	Identifiler® Plus					
			19,24		16,17	8,12
	4	9	14			9,11
		14,17	13	29,30		X,Y
		21,24				6,9
		14,18				11,14
NP8WF8	PowerPlex® Fusion 6C					
		16,3,17,3	19,24	10,11	16,17	8,12
	4	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24	8,13	5,21	17,25.2	6,9
		14,18	11	17		11,14
NR2HBJ	GlobalFiler™					
		16,3,17,3	19,24	10,11	16,17	8,12
	4	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11		2	
NTA49D	PowerPlex® Fusion					
		16,3,17,3	19,24	10,11	16,17	8,12
	4	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24	8,13	5,21		6,9
		14,18	11			11,14
NVZU8J	GlobalFiler™					
		16,3,17,3	19,24	10,11	16,17	8,12
	4	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	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

NXRNBF	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
NYWHL7	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
NYXNCT	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
P2YXEU	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
P3ADR8	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
P437NQ	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
P6J3FQ	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	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

P9HECQ	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
PCFM78	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
PGVTBU	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
PLPMT9	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
PYA3W8	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
Q6EPZF	PowerPlex® Fusion 5C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
QDMWMN	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	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

QG92FE	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
QLJ2QK	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
QRA2W7	PowerPlex® 6C, GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
R74GPR	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
R83UH8	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
R8JDHQ	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
RB283B	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	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

RBJPDQ	GlobalFiler™					
		16,3,17,3	19,24	10,11	16,17	8,12
	4	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11			2
RCU4R6	GlobalFiler™					
		16,3,17,3	19,24	10,11	16,17	8,12
	4	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11			2
RHWA6M	PowerPlex® Fusion 6C					
		16,3,17,3	19,24	10,11	16,17	8,12
	4	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24	8,13	5,21	17,25.2	6,9
		14,18	11	17	17	
RLFQW3	PowerPlex® Fusion 6C					
		16,3,17,3	19,24	10,11	16,17	8,12
	4	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24	8,13	5,21	17,25.2	6,9
		14,18	11	17	17	
RPJQQR	GlobalFiler™ (STRmix)					
		16,3,17,3	19,24	10,11	16,17	8,12
	4	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24	Not Tested	Not Tested	17,25.2	6,9
		14,18	11	Not Tested	Not Tested	2
RV4NEF	GlobalFiler™					
		16,3,17,3	19,24	10,11	16,17	8,12
	4	9	14	15,16	15,18	9,11
		14,17	13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	11			2
RVADT7	GlobalFiler™					
		16,3,17,3	19,24	10,11	16,17	8,12
	4	9,9	14,14	15,16	15,18	9,11
		14,17	13,13	29,30	15,16	X,Y
		21,24			17,25.2	6,9
		14,18	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

T2ANAH	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
T67ZX8	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
T6PA4A	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
TAGEVT	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
TAL9JL	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
TBYC77	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
TCRFJD	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	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

TED64Q	GlobalFiler™					
	16,3,17,3	{19,24}	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
TFM8PP	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
TVJ283	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
TWYNXC	Identifiler® Plus					
		19,24		16,17	8,12	
4	9	14			9,12	9,11
	14,17	13	29,30		X,Y	11
	21,24				6,9	11,14
	14,18					
TY4GQP	PowerPlex® Fusion 6C (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
TYZ4CM	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
U4RFJB	NGM SElect					
	16,3,17,3	19,24	10,11	16,17		
4		14,14	15,16	15,18		9,11
	14,17	13,13	29,30	15,16	X,Y	
	21,24			17,25.2	6,9	
	14,18					

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

U6N9L3	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
UZ6BU6	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
V392KZ	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
V63MFC	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
VCYRGL	PowerPlex® ESX16 Fast					
	16,3,17,3	19,24	10,11	16,17		
4		14	15,16	15,18		9,11
	14,17	13	29,30	15,16	X,Y	
	21,24				6,9	
	14,18					
WD8Z2	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
W43EYX	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	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

WJUA93	GlobalFiler™					
	16.3,17.3	19,24	10,11	16,17	8,12	
	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
WT6BU4	GlobalFiler™ (STRmix)					
	16.3,17.3	19,24	10,11	16,17	8,12	
	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
WVRP6D	GlobalFiler™					
	16.3,17.3	19,24	10,11	16,17	8,12	
	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
X38NDX	GlobalFiler™					
	16.3,17.3	19,24	10,11	16,17	8,12	
	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
XCB72Z	GlobalFiler™					
	16.3,17.3	19,24	10,11	16,17	8,12	
	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
XEZ3JL	PowerPlex® Fusion 6C					
	16.3,17.3	19,24	10,11	16,17	8,12	
	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
XFPZGX	GlobalFiler™					
	16.3,17.3	19,24	10,11	16,17	8,12	
	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	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

XXCUFW	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
XYQQX2	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
Y4EDY8	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
Y7Z3JK	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
Y8EYVW	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
YD39YM	GlobalFiler™ (STRmix v2.5.1.1)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
YHDY92	PowerPlex® Fusion 5C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21		6,9	11,14
	14,18	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

YJ7ZLY	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
YJTW2Z	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
YTC6CU	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
YWEB4Z	GlobalFiler™ (STRmix)					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
YXAGF8	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
YYH7LH	PowerPlex® 21					
	16,3,17,3	19,24		16,17	8,12	12,17
4	9,9	14,14		15,18	9,12	9,11
	14,17	13,13	29,30		X,Y	11,11
	21,24	8,13	5,21		6,9	11,14
	14,18					
YZT9A2	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21		6,9	11,14
	14,18	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

Z6NMPJ	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
ZADY9Y	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
ZKJ878	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
ZLPP63	PowerPlex® Fusion					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24	8,13	5,21		6,9	11,14
	14,18	11				
ZRYR8X	PowerPlex® Fusion 6C					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24	8,13	5,21	17,25.2	6,9	11,14
	14,18	11	17	17		
ZWNZHW	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	
ZZ9E2J	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4	9,9	14,14	15,16	15,18	9,12	9,11
	14,17	13,13	29,30	15,16	X,Y	11,11
	21,24			17,25.2	6,9	11,14
	14,18	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 4e - STR Results

WPMLHZ	GlobalFiler™					
	16,3,17,3	19,24	10,11	16,17	8,12	
4e	9	14	15,16	15,18	9,12	9,11
	14,17	13	29,30	15,16	X,Y	11
	21,24			17,25.2	6,9	11,14
	14,18	11			2	



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
	<b>D1S1656</b>	<b>D2S1338</b>	<b>D2S441</b>	<b>D3S1358</b>	<b>D5S818</b>	<b>D6S1043</b>
<b>Item</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 4sp - STR Results

WPMLHZ GlobalFiler™

4sp



# YSTR Amplification Kit(s) & Results

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 1 - YSTR Results

2VW4T3	Yfiler™	1	
CGZNXQ	Yfiler™	1	
K2ZEUH	Yfiler™	1	
L6UVJH	Yfiler™	1	
NCLHD9	Yfiler™ Plus	1	
QLJ2QK	PowerPlex® Y 23	1	
T2ANAH	PowerPlex® Y 23	1	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
2BMN64	Yfiler™	13	16	13	30	23	11	11	13	
2		14	10	14	19	16	16		11	
							21			
2UEATT	Yfiler™ Plus	13	16	13	30	23	11	11	13	
2	34,37	14	10	14	19	35	16	16	11	
	38	12		17	17	21	21		11	
2VW4T3	Yfiler™	13	16	13	30	23	11	11	13	
2		14	10	14	19	16	16		11	
							21			
33DLJ3	Yfiler™	13	16	13	30	23	11	11	13	
2		14	10	14	19	16	16		11	
							21			
3L488R	Yfiler™ Plus	13	16	13	30	23	11	11	13	
2	34,37	14	10	14	19	35	16	16	11	
	38	12		17	17	21	21		11	
3MT9XV	Yfiler™	13	16,16	13	30	23	11	11	13	
2		14	10	14	19	16	16		11	
							21			
4BJTQP	Yfiler™	13	16,16	13	30	23	11	11	13	
2		14	10	14	19	16	16		11	
							21			
4FRBR4	Yfiler™ Plus	13	16	13	30	23	11	11	13	
2	34,37	14	10	14	19	35	16	16	11	
	38	12		17	17	21	21		11	
4JRV3V	Yfiler™	13	16	13	30	23	11	11	13	
2		14	10	14	19	16	16		11	
							21			
4K3UYP	PowerPlex® Y 23	13	16,16	13	30	23	11	11	13	
2		14	10	14	19	16	16		11	
		12	12	17	17		21	13	11	
4TY2RQ	Yfiler™	13	16,16	13	30	23	11	11	13	
2		14	10	14	19	16	16		11	
							21			
4V3WBT	Yfiler™	13	16,16	13	30	23	11	11	13	
2		14	10	14	19	16	16		11	
							21			

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
4Y8FG2	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
6JBLK2	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
6N3WBR	PowerPlex® Y 23									
		13	16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
6QTU9X	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
7NZVCR	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
7T7N7M	Yfiler™									
		13	16	13	30	23	11	11	13	
2	14	10	14	19		16	16			
							21		11	
7TVCJY	Yfiler™									
		13	16	13	30	23	11	11	13	
2	14	10	14	19		16	16			
							21		11	
7X4K3N	Yfiler™									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16			
							21		11	
7X63RR	Yfiler™ Plus									
	34,37	13	16,16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
87VDWZ	Yfiler™									
		13	16	13	30	23	11	11	13	
2	14	10	14	19		16	16			
							21		11	
8FZUDP	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
8P4CL8	Yfiler™									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16			
							21		11	

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 2 - YSTR Results

93AU73	PowerPlex® Y 23								
		13	16,16	13	30	23	11	11	13
2		14	10	14	19	16	16		24
		12	12	17	17		21	13	11
93UNTX	Yfiler™ Plus								
	34,37	13	16	13	30	23	11	11	13
2		14	10	14	19	35	16	16	24
	38	12		17	17	21	21		11
9BKEAY	PowerPlex® Y 23								
		13	16	13	30	23	11	11	13
2		14	10	14	19	16	16		24
		12	12	17	17		21	13	11
9KP483	PowerPlex® Y 23								
		13	16,16	13	30	23	11	11	13
2		14	10	14	19	16	16		24
		12	12	17	17		21	13	11
9R9KLY	Yfiler™								
		13	16	13	30	23	11	11	13
2		14	10	14	19	16	16		
							21		11
ACA38K	PowerPlex® Y 23								
		13	16,16	13	30	23	11	11	13
2		14	10	14	19	16	16		24
		12	12	17	17		21	13	11
ALZT2K	PowerPlex® Y 23								
		13	16,16	13	30	23	11	11	13
2		14	10	14	19	16	16		24
		12	12	17	17		21	13	11
AV3BCM	PowerPlex® Y 23								
		13	16,16	13	30	23	11	11	13
2		14	10	14	19	16	16		24
		12	12	17	17		21	13	11
BGJKYL	Yfiler™								
		13	16,16	13	30	23	11	11	13
2		14	10	14	19	16	16		
							21		11
BU6ZZY	PowerPlex® Y 23								
		13	16,16	13	30	23	11	11	13
2		14	10	14	19	16	16		24
		12	12	17	17		21	13	11
C6NQ3H	Yfiler™								
		13	16,16	13	30	23	11	11	13
2		14	10	14	19	16	16		
							21		11
C6YTNG	Yfiler™ Plus								
	34,37	13	16	13	30	23	11	11	13
2		14	10	14	19	35	16	16	24
	38	12		17	17	21	21		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 2 - YSTR Results

CBTXVK	Yfiler™ Plus								
	34,37	13	16	13	30	23	11	11	13
	14	10	14	19	35	16	16	11	24
2	38	12		17	17	21	21		11
CGZNXQ	Yfiler™								
		13	16	13	30	23	11	11	13
	14	10	14	19		16	16		24
							21		11
CLUXEY	PowerPlex® Y 23								
		13	16,16	13	30	23	11	11	13
	14	10	14	19		16	16		24
2		12	12	17	17		21	13	11
CQLPFL	Yfiler™ Plus								
	34,37	13	16	13	30	23	11	11	13
	14	10	14	19	35	16	16	11	24
2	38	12		17	17	21	21		11
CZRXTD	Yfiler™ Plus								
	34,37	13	16,16	13	30	23	11	11	13
	14	10	14	19	35	16	16	11	24
2	38	12		17	17	21	21		11
D39GFF	PowerPlex® Y 23								
		13	16,16	13	30	23	11	11	13
	14	10	14	19		16	16		24
2		12	12	17	17		21	13	11
DDRHH	PowerPlex® Y 23								
		13	16,16	13	30	23	11	11	13
	14	10	14	19		16	16		24
2		12	12	17	17		21	13	11
FBZ4BR	Yfiler™ Plus								
	34,37	13	16	13	30	23	11	11	13
	14	10	14	19	35	16	16	11	24
2	38	12		17	17	21	21		11
FHK28R	Yfiler™								
		13	16	13	30	23	11	11	13
	14	10	14	19		16	16		24
							21		11
G4D67G	Yfiler™								
		13	16	13	30	23	11	11	13
	14	10	14	19		16	16		24
							21		11
GQN96J	PowerPlex® Y 23								
		13	16,16	13	30	23	11	11	13
	14	10	14	19		16	16		24
2		12	12	17	17		21	13	11
GRZ9JL	Yfiler™ Plus								
	34,37	13	16	13	30	23	11	11	13
	14	10	14	19	35	16	16	11	24
2	38	12		17	17	21	21		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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
GV4GTJ	PowerPlex® Y 23									
		13	16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
GYGUKC	Yfiler™									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
							21		11	
HHAMVF	Yfiler™ Plus									
	34,37	13	16,16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
HKU4YF	Yfiler™									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
							21		11	
J2JY2B	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
JCJ2DE	Yfiler™									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
							21		11	
JFKZWK	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
JYDG3F	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
K2ZEUH	Yfiler™									
		13	16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
							21		11	
KBHN6C	Yfiler™									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
							21		11	
KP4YXA	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
KXJHFN	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
L6UVJH	Yfiler™									
		13	16	13	30	23	11	11	13	
2	14	10	14	19		16	16			
							21			11
LLGBME	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13		11
M32QDB	Yfiler™									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16			
							21			11
M6M467	Yfiler™									
		13	16	13	30	23	11	11	13	
2	14	10	14	19		16	16			
							21			11
M97LFJ	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21			11
MD2PEA	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13		11
MJLHCA	Yfiler™									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16			
							21			11
N7GLQM	PowerPlex® Y									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13		11
NCLHD9	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21			11
NHBTVJ	Yfiler™									
		13	16	13	30	23	11	11	13	
2	14	10	14	19		16	16			
							21			11
NR2HBJ	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21			11
NTA49D	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13		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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
NVZU8J	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
NXRNBF	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
NYWHL7	Yfiler™									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16			
							21		11	
P2YXEU	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
P3ADR8	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
PCFM78	Yfiler™									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16			
							21		11	
PGVTBU	PowerPlex® Y 23									
		13	16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
PLPMT9	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
PQ36BP	Yfiler™									
	N/A	13	16,16	13	30	23	11	11	13	
2	14	10	14	19	N/A	16	16	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	21	N/A	11	
PYA3W8	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
QLJ2QK	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
QRA2W7	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13	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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
R74GPR	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
R83UH8	Yfiler™ Plus									
	34,37	13	16,16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
R8JDHQ	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
RCU4R6	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
RHWA6M	Yfiler™									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16			
							21		11	
RLFQQ3	Yfiler™									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16			
							21		11	
RV4NEF	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
RVADT7	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
T2ANAH	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
T67ZX8	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
T6PA4A	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
TAL9JL	Yfiler™									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16			
							21		11	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
TBYC77	Yfiler™									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16			
							21			11
TCRFJD	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21			11
TVJ283	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16			24
		12	12	17	17		21	13		11
TWYNXC	Yfiler™									
		13	16	13	30	23	11	11	13	
2	14	10	14	19		16	16			
							21			11
TY4GQP	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16			24
		12	12	17	17		21	13		11
U6N9L3	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21			11
UZ6BU6	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16			24
		12	12	17	17		21	13		11
V392KZ	Yfiler™									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16			
							21			11
V63MFC	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21			11
WVD8Z2	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21			11
W43EYX	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16			24
		12	12	17	17		21	13		11
WVRP6D	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16			24
		12	12	17	17		21	13		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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 2 - YSTR Results

X38NDX	PowerPlex® Y 23								
		13	16,16	13	30	23	11	11	13
2	14	10	14	19		16	16		24
		12	12	17	17		21	13	11
XCB72Z	Yfiler™ Plus								
	34,37	13	16	13	30	23	11	11	13
2	14	10	14	19	35	16	16	11	24
	38	12		17	17	21	21		11
XEZ3JL	Yfiler™								
		13	16,16	13	30	23	11	11	13
2	14	10	14	19		16	16		
							21		11
XXCUFW	Yfiler™								
		13	16,16	13	30	23	11	11	13
2	14	10	14	19		16	16		
							21		11
XYQQX2	Yfiler™ Plus								
	34,37	13	16	13	30	23	11	11	13
2	14	10	14	19	35	16	16	11	24
	38	12		17	17	21	21		11
Y4EDY8	Yfiler™ Plus								
	34,37	13	16	13	30	23	11	11	13
2	14	10	14	19	35	16	16	11	24
	38	12		17	17	21	21		11
YHDY92	PowerPlex® Y 23								
		13	16,16	13	30	23	11	11	13
2	14	10	14	19		16	16		24
		12	12	17	17		21	13	11
YJ7ZLY	Yfiler™								
		13	16,16	13	30	23	11	11	13
2	14	10	14	19		16	16		
							21		11
YJTW2Z	Yfiler™								
		13	16	13	30	23	11	11	13
2	14	10	14	19		16	16		
							21		11
YTC6CU	Yfiler™								
		13	16,16	13	30	23	11	11	13
2	14	10	14	19		16	16		
							21		11
YWEB4Z	Yfiler™ Plus								
	34,37	13	16	13	30	23	11	11	13
2	14	10	14	19	35	16	16	11	24
	38	12		17	17	21	21		11
YZT9A2	PowerPlex® Y 23								
		13	16,16	13	30	23	11	11	13
2	14	10	14	19		16	16		24
		12	12	17	17		21	13	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 2 - YSTR Results

Z6NMPJ	PowerPlex® Y 23	13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
ZLPP63	Yfiler™ Plus	34,37	13	16	13	30	23	11	11	13
2	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
ZRYR8X	Yfiler™	13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16			
							21		11	
ZWNZHW	PowerPlex® Y 23	13	16,16	13	30	23	11	11	13	
2	14	10	14	19		16	16		24	
		12	12	17	17		21	13	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
Item		DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 3 - YSTR Results</b>										
33DLJ3	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3		15	12	13	18	16	17			
							25			11
93AU73	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3		15	12	13	18	16	17			22
		12	13	17	18		25	10	11	
9KP483	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3		15	12	13	18	16	17			22
		12	13	17	18		25	10	11	
ACA38K	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3		15	12	13	18	16	17			22
		12	13	17	18		25	10	11	
BU6ZZY	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3		15	12	13	18	16	17			22
		12	13	17	18		25	10	11	
CLUXEY	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3		15	12	13	18	16	17			22
		12	13	17	18		25	10	11	
N7GLQM	PowerPlex® Y									
		15	11,14	12	28	23	11	13	13	
3		15	12	13	18	16	17			22
		12	13	17	18		25	10	11	
QLJ2QK	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3		15	12	13	18	16	17			22
		12	13	17	18		25	10	11	
T2ANAH	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3		15	12	13	18	16	17			22
		12	13	17	18		25	10	11	
WVRP6D	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3		15	12	13	18	16	17			22
		12	13	17	18		25	10	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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 3e - YSTR Results

2BMN64	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		
							25		11
2UEATT	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	29	16	17	22
	37	12		17	18	22	25		11
3L488R	Yfiler™ Plus								
3e									
3MT9XV	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		
							25		11
4BJTQP	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		
							25		11
4FRBR4	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	29	16	17	22
	37	12		17	18	22	25		11
4JRV3V	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		
							25		11
4K3UYP	PowerPlex® Y 23								
3e									
4TY2RQ	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		
							25		11
4V3WBT	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		
							25		11
4Y8FG2	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		22
		12	13	17	18		25	10	11
6JBLK2	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	29	16	17	22
	37	12		17	18	22	25		11

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 3e - YSTR Results

6N3WBR	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3e	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
6QTU9X	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
7NZVCR	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
7T7N7M	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e	15	12	13	18		16	17		
							25		11
7TVCJY	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e	15	12	13	18		16	17		
							25		11
7X4K3N	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e	15	12	13	18		16	17		
							25		11
7X63RR	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
87VDWZ	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e	15	12	13	18		16	17		
							25		11
8FX678	Yfiler™								
3e									
8FZUDP	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3e	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
8P4CL8	Yfiler™								
3e									
92YHGQ	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e	15	12	13	18		16	17		
							25		11



TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 3e - YSTR Results

93UNTX	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
9BKEAY	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	16	17		22
		12	13	17	18		25	10	11
9R9KLY	Yfiler™								
		15	11,14	12	28	23	11	13	13
	3e	15	12	13	18		16	17	
							25		11
ALZT2K	PowerPlex® Y 23								
	3e								
AV3BCM	PowerPlex® Y 23								
	3e								
BGJKYL	Yfiler™								
		15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	16	17		
							25		11
C6NQ3H	Yfiler™								
		15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	16	17		
							25		11
C6YTNG	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
CBTXVK	Yfiler™ Plus								
	3e								
CQLPFL	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
CZRXTD	Yfiler™ Plus								
	3e								
D39GFF	PowerPlex® Y 23								
	3e								

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

DDRVHH	PowerPlex® Y 23								
3e	[REDACTED]								
DJJZA2	Yfiler™								
3e	[REDACTED]								
FBZ4BR	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
FHK28R	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e	15	12	13	18		16	17		
							25		11
G4D67G	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e	15	12	13	18		16	17		
							25		11
GNHNFx	Yfiler™								
3e	[REDACTED]								
GQN96J	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3e	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
GRZ9JL	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
GV4GTJ	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3e	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
GYGUKC	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e	15	12	13	18		16	17		
							25		11
HHAMVF	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
HKU4YF	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e	15	12	13	18		16	17		
							25		11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
J2JY2B	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
JCJ2DE	Yfiler™									
3e										
JFKZWK	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
JYDG3F	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
KBHN6C	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3e	15	12	13	18		16	17			
							25		11	
KP4YXA	PowerPlex® Y 23									
3e										
KRBQWV	Yfiler™									
3e										
KXJHFN	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
LLGBME	PowerPlex® Y 23									
		15	11,14	12	28	NR	11	13	13	
3e	NR	12	NR	18		16	17		22	
		12	13	17	18		25	10	11	
M32QDB	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3e	15	12	13	18		16	17			
							25		11	
M6M467	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3e	15	12	13	18		16	17			
							25		11	
MD2PEA	PowerPlex® Y 23									
3e										

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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 3e - YSTR Results

MJLHCA	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		
							25		11
NCLHD9	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	29	16	17	22
	37	12		17	18	22	25		11
NHBTVJ	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		
							25		11
NR2HBJ	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	29	16	17	22
	37	12		17	18	22	25		11
NTA49D	PowerPlex® Y 23								
3e									
NVZU8J	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	29	16	17	22
	37	12		17	18	22	25		11
NXRNBF	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	29	16	17	22
	37	12		17	18	22	25		11
NYWHL7	Yfiler™								
3e									
P2YXEU	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		22
		12	13	17	18		25	10	11
P3ADR8	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	29	16	17	22
	37	12		17	18	22	25		11
P6J3FQ	Yfiler™								
3e									
P9HECQ	Yfiler™								
3e									

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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 3e - YSTR Results

PCFM78	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		
							25		11
PGVTBU	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		22
			12	13	17	18	25	10	11
PLPMT9	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	29	16	17	11
				17	18	22	25		11
PYA3W8	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	29	16	17	11
				17	18	22	25		11
QDMWMN	Yfiler™								
3e									
QRA2W7	PowerPlex® Y 23								
3e									
R74GPR	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		22
			12	13	17	18	25	10	11
R83UH8	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	29	16	17	11
				17	18	22	25		11
R8JDHQ	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		22
			12	13	17	18	25	10	11
RCU4R6	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	29	16	17	11
				17	18	22	25		11
RHWA6M	Yfiler™								
3e									
RLFWQ3	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		
							25		11

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 3e - YSTR Results

RV4NEF	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
RVADT7	PowerPlex® Y 23								
3e									
T67ZX8	PowerPlex® Y 23								
	15	11,14	12	28	23	11	13	13	
3e	15	12	13	18	16	17			22
	12	13	17	18		25	10	11	
T6PA4A	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
TAL9JL	Yfiler™								
3e									
TBYC77	Yfiler™								
	15	11,14	12	28	23	11	13	13	
3e	15	12	13	18	16	17			
						25			11
TCRFJD	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
TVJ283	PowerPlex® Y 23								
3e									
TWYNXC	Yfiler™								
	15	11,14	12	28	23	11	13	13	
3e	15	12	13	18	16	17			
						25			11
TY4GQP	PowerPlex® Y 23								
	15	11,14	12	28	23	11	13	13	
3e	15	12	13	18	16	17			22
	12	13	17	18		25	10	11	
U6N9L3	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
UZ6BU6	Yfiler™								
	15	11,14	12	28	23	11	13	13	
3e	15	12	13	18	16	17			22
	12	13	17	18		25	10	11	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
V392KZ	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3e	15	12	13	18		16	17			
							25			11
V63MFC	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
WD8Z2	Yfiler™ Plus									
3e										
X38NDX	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3e	15	12	13	18		16	17		22	
		12	13	17	18		25	10		11
XCB7Z2	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
XEZ3JL	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3e	15	12	13	18		16	17			
							25			11
XXCUFW	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3e	15	12	13	18		16	17			
							25			11
XYQQX2	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
Y4EDY8	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
YHDY92	PowerPlex® Y 23									
3e										
YJ7ZLY	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3e	15	12	13	18		16	17			
							25			11
YJTW2Z	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3e	15	12	13	18		16	17			
							25			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

YTC6CU	Yfiler™	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		
							25		11
YWEB4Z	Yfiler™ Plus	35,37	15	11,14	12	28	23	11	13
3e		15	12	13	18	29	16	17	11
		37	12		17	18	22	25	
									11
YZT9A2	PowerPlex® Y 23	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		22
			12	13	17	18	25	10	11
Z6NMPJ	PowerPlex® Y 23	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		22
			12	13	17	18	25	10	11
ZLPP63	Yfiler™ Plus	35,37	15	11,14	12	28	23	11	13
3e		15	12	13	18	29	16	17	11
		37	12		17	18	22	25	
									11
ZRYR8X	Yfiler™	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		
							25		11
ZWNZHW	PowerPlex® Y 23								
3e									



TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
2BMN64	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11
2UEATT	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
3L488R	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
3MT9XV	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11
4BJTQP	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11
4FRBR4	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
4JRV3V	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11
4K3UYP	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10		11
4TY2RQ	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11
4V3WBT	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11
4Y8FG2	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10		11
6JBLK2	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
6N3WBR	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
6QTU9X	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
7NZVCR	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
7T7N7M	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
7TVCJY	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
7X4K3N	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
7X63RR	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
87VDWZ	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
8FX678	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
8FZUDP	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
8P4CL8	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
92YHGQ	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
93UNTX	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
9BKEAY	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
9R9KLY	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
ALZT2K	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
AV3BCM	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
BGJKYL	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
C6NQ3H	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
C6YTNG	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
CBTXVK	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
CQLPFL	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
CZRXTD	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
D39GFF	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
DDRVHH	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
DJJZA2	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
FBZ4BR	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
FHK28R	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
G4D67G	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
GNHNFX	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
GQN96J	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
GRZ9JL	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
GV4GTJ	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
GYGUKC	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
HHAMVF	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
HKU4YF	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 3sp - YSTR Results</b>									
J2JY2B	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
JCJ2DE	Yfiler™								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		
							25		11
JFKZWK	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
JYDG3F	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
KBHN6C	Yfiler™								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		
							25		11
KP4YXA	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
KRBQWV	Yfiler™								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		
							25		11
KXJHFN	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
LLGBME	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
M32QDB	Yfiler™								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		
							25		11
M6M467	Yfiler™								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		
							25		11
MD2PEA	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
MJLHCA	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11
NCLHD9	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
NHBTVJ	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11
NR2HBJ	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
NTA49D	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			22
		12	13	17	18		25	10		11
NVZU8J	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
NXRNBF	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
NYWHL7	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11
P2YXEU	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			22
		12	13	17	18		25	10		11
P3ADR8	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
P6J3FQ	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11
P9HECQ	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
PCFM78	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11
PGVTBU	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			22
		12	13	17	18		25	10		11
PLPMT9	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11		22
	37	12		17	18	22	25			11
PYA3W8	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11		22
	37	12		17	18	22	25			11
QDMWMN	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11
QRA2W7	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			22
		12	13	17	18		25	10		11
R74GPR	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			22
		12	13	17	18		25	10		11
R83UH8	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11		22
	37	12		17	18	22	25			11
R8JDHQ	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			22
		12	13	17	18		25	10		11
RCU4R6	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11		22
	37	12		17	18	22	25			11
RHWA6M	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11
RLFQ3	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
RV4NEF	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
RVADT7	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
T67ZX8	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
T6PA4A	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
TAL9JL	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
TBYC77	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
TCRFJD	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
TVJ283	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
TWYNXC	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
TY4GQP	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
U6N9L3	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
UZ6BU6										
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	



TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
V392KZ	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11
V63MFC	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
WV8Z2	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
X38NDX	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10		11
XCB72Z	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
XEZ3JL	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11
XXCUFW	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11
XYQQX2	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
Y4EDY8	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
YHDY92	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10		11
YJ7ZLY	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11
YJTW2Z	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
YTC6CU	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11
YWEB4Z	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
YZT9A2	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10		11
Z6NMPJ	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10		11
ZLPP63	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
ZRYR8X	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25			11
ZWNZHW	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10		11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
2BMN64	Yfiler™									
		13	16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21			11
2UEATT	Yfiler™ Plus									
	17	11	16	13	30	21	11	16	13	
4	10	11	19	38	14	17	21	16	35	
	13	14	24	34,37	12		11		23	
33DLJ3	Yfiler™									
		13	16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21			11
3L488R	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
3MT9XV	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21			11
4BJTQP	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21			11
4FRBR4	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
4JRV3V	Yfiler™									
		13	16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21			11
4TY2RQ	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21			11
4V3WBT	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21			11
4Y8FG2	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
6JBLK2	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
6N3WBR	PowerPlex® Y 23									
		13	16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
6QTU9X	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
7NZVCR	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
7T7N7M	Yfiler™									
		13	16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21		11	
7TVCJY	Yfiler™									
		13	16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21		11	
7X4K3N	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21		11	
7X63RR	Yfiler™ Plus									
	34,37	13	16,16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
87VDWZ	Yfiler™									
		13	16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21		11	
8FX678	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21		11	
8FZUDP	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
8P4CL8	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21		11	
92YHGQ	Yfiler™									
		13	16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21		11	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
93AU73	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
93UNTX	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
9BKEAY	PowerPlex® Y 23									
		13	16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
9KP483	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
9R9KLY	Yfiler™									
		13	16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21		11	
ACA38K	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
AV3BCM	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
BGJKYL	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21		11	
BU6ZZY	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
C6NQ3H	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21		11	
C6YTNG	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
CBTXVK	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 4 - YSTR Results

CLUXEY	PowerPlex® Y 23								
		13	16,16	13	30	23	11	11	13
4	14	10	14	19		16	16		24
		12	12	17	17		21	13	11
CQLPFL	Yfiler™ Plus								
	34,37	13	16	13	30	23	11	11	13
4	14	10	14	19	35	16	16	11	24
	38	12		17	17	21	21		11
CZRXTD	Yfiler™ Plus								
	34,37	13	16,16	13	30	23	11	11	13
4	14	10	14	19	35	16	16	11	24
	38	12		17	17	21	21		11
DJJA2	Yfiler™								
		13	16,16	13	30	23	11	11	13
4	14	10	14	19		16	16		
							21		11
FBZ4BR	Yfiler™ Plus								
	34,37	13	16	13	30	23	11	11	13
4	14	10	14	19	35	16	16	11	24
	38	12		17	17	21	21		11
FHK28R	Yfiler™								
		13	16	13	30	23	11	11	13
4	14	10	14	19		16	16		
							21		11
G4D67G	Yfiler™								
		13	16	13	30	23	11	11	13
4	14	10	14	19		16	16		
							21		11
GNHNFY	Yfiler™								
		13	16,16	13	30	23	11	11	13
4	14	10	14	19		16	16		
							21		11
GQN96J	PowerPlex® Y 23								
		13	16,16	13	30	23	11	11	13
4	14	10	14	19		16	16		24
		12	12	17	17		21	13	11
GRZ9JL	Yfiler™ Plus								
	34,37	13	16	13	30	23	11	11	13
4	14	10	14	19	35	16	16	11	24
	38	12		17	17	21	21		11
GV4GTJ	PowerPlex® Y 23								
		13	16	13	30	23	11	11	13
4	14	10	14	19		16	16		24
		12	12	17	17		21	13	11
GYGUKC	Yfiler™								
		13	16,16	13	30	23	11	11	13
4	14	10	14	19		16	16		
							21		11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
HHAMVF	Yfiler™ Plus									
	34,37	13	16,16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
HKU4YF	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21		11	
J2JY2B	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
JCJ2DE	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21		11	
JFKZWK	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
JYDG3F	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
KBHN6C	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21		11	
KP4YXA	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
KRBQWV	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21		11	
KXJHFN	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
LLGBME	Yfiler™, PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
M32QDB	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21		11	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
M6M467	Yfiler™									
		13	16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21			11
MD2PEA	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13		11
MJLHCA	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21			11
N7GLQM	PowerPlex® Y									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13		11
NCLHD9	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21			11
NHBTVJ	Yfiler™									
		13	16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21			11
NR2HBJ	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21			11
NTA49D	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13		11
NVZU8J	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21			11
NXRNBF	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21			11
NYWHL7	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21			11
P2YXEU	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13		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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 4 - YSTR Results</b>										
P3ADR8	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
P6J3FQ	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21		11	
P9HECQ	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21		11	
PCFM78	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21		11	
PGVTBU	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
PLPMT9	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
PYA3W8	Yfiler™ Plus									
	34,37	13	16,16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		11	
QDMWMN	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21		11	
QLJ2QK	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
QRA2W7	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
R74GPR	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
R83UH8	Yfiler™ Plus									
	34,37	13	16,16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21		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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 4 - YSTR Results

R8JDHQ	PowerPlex® Y 23								
		13	16,16	13	30	23	11	11	13
4		14	10	14	19	16	16		24
		12	12	17	17		21	13	11
RCU4R6	Yfiler™ Plus								
	34,37	13	16	13	30	23	11	11	13
4		14	10	14	19	35	16	16	24
	38	12		17	17	21	21		11
RHWA6M	Yfiler™								
		13	16	13	30	23	11	11	13
4		14	10	14	19	16	16		
							21		11
RLFQ3	Yfiler™								
		13	16,16	13	30	23	11	11	13
4		14	10	14	19	16	16		
							21		11
RV4NEF	Yfiler™ Plus								
	34,37	13	16	13	30	23	11	11	13
4		14	10	14	19	35	16	16	24
	38	12		17	17	21	21		11
RVADT7	PowerPlex® Y 23								
		13	16,16	13	30	23	11	11	13
4		14	10	14	19	16	16		24
		12	12	17	17		21	13	11
T2ANAH	PowerPlex® Y 23								
		13	16,16	13	30	23	11	11	13
4		14	10	14	19	16	16		24
		12	12	17	17		21	13	11
T67ZX8									
		13	16,16	13	30	23	11	11	13
4		14	10	14	19	16	16		24
		12	12	17	17		21	13	11
T6PA4A	Yfiler™ Plus								
	34,37	13	16	13	30	23	11	11	13
4		14	10	14	19	35	16	16	24
	38	12		17	17	21	21		11
TAL9JL	Yfiler™								
		13	16,16	13	30	23	11	11	13
4		14	10	14	19	16	16		
							21		11
TBYC77	Yfiler™								
		13	16,16	13	30	23	11	11	13
4		14	10	14	19	16	16		
							21		11
TCRFJD	Yfiler™ Plus								
	34,37	13	16	13	30	23	11	11	13
4		14	10	14	19	35	16	16	24
	38	12		17	17	21	21		11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
TWYNXC	Yfiler™									
		13	16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21			11
TY4GQP		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
U6N9L3	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21			11
UZ6BU6	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
V392KZ	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21			11
V63MFC	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21			11
WVD8Z2	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21			11
W43EYX	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
WVRP6D	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
X38NDX	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13	11	
XCB72Z	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21			11
XEZ3JL	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21			11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	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>										
XXCUFW	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21			11
XYQQX2	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21			11
Y4EDY8	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21			11
YHDY92	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13		11
YJ7ZLY	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21			11
YJTW2Z	Yfiler™									
		13	16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21			11
YTC6CU	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21			11
YWEB4Z	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21			11
YZT9A2	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13		11
Z6NMPJ	PowerPlex® Y 23									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16		24	
		12	12	17	17		21	13		11
ZLPP63	Yfiler™ Plus									
	34,37	13	16	13	30	23	11	11	13	
4	14	10	14	19	35	16	16	11	24	
	38	12		17	17	21	21			11
ZRYR8X	Yfiler™									
		13	16,16	13	30	23	11	11	13	
4	14	10	14	19		16	16			
							21			11

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 4 - YSTR Results

ZWNZHW	PowerPlex® Y 23								
		13	16,16	13	30	23	11	11	13
4	14	10	14	19		16	16		24
		12	12	17	17		21	13	11

# Additional DNA Results

## TABLE 3

<b>Locus</b>	<b>WebCode</b>	<b>Item 1</b>	<b>Item 2</b>	<b>Item 3e</b>	<b>Item 3sp</b>	<b>Item 4</b>
<b>QS1</b>	79JYWV	Q	Q			
	DW4H6Q	Q	Q			
	KJFNVJ	Q	Q			
	N3EBND	Q	Q			
	TKLX39	Q	Q			
	TV6D7B	Q	Q			
	YRJJV3	Q	Q			
<b>QS2</b>	79JYWV	S	S			
	DW4H6Q	S	S			
	KJFNVJ	S	S			
	N3EBND	S	S			
	TKLX39	S	S			
	TV6D7B	S	S			
	YRJJV3	S	S			
<b>SE33</b>	U4RFJB			[27.2],[29.2]		

# 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
22JGNH	Yes	No	No	Yes	6QTU9X	Yes	No	No	Yes
2BMN64	Yes	No	No	Yes	6XQJP3	Yes	No	No	Yes
2UEATT	Yes	No	No	Yes	79JYWW	No Interpretations Reported, DNA Analyzed for Database purposes only.			
2VW4T3	No Interpretations Reported, DNA Analyzed for Database purposes only.				7CLX8N	No Interpretations Reported, DNA Analyzed for Database purposes only.			
33DLJ3	Yes	No	No	Yes	7DFDCD	Yes	No	No	Yes
39C99G	Yes	No	No	Yes	7HAK3T	Yes	No	No	Yes
3L488R	Yes	No	No	Yes	7NZHKC	Yes	No	No	Yes
3MT9XV	Yes	No	No	Yes	7NZVCR	Yes	No	No	Yes
4BJTQP	Yes	No	No	Yes	7PUN8B	Yes	No	No	Yes
4FRBR4	Yes	No	No	Yes	7T7N7M	Yes	No	No	Yes
4JRV3V	Yes	No	No	Yes	7TVCJY	Yes	No	No	Yes
4K3UYP	Yes	No	No	Yes	7X4K3N	Yes	No	No	Yes
4TY2RQ	Yes	No	No	Yes	7X63RR	Yes	No	No	Yes
4V3WBT	Yes	No	No	Yes	87VDWZ	Yes	No	No	Yes
4Y8FG2	Yes	No	No	Yes	8FX678				
63288Q	Yes	No	No	Yes	8FZUDP	Yes	No	No	Yes
66Q7EG	Yes	No	No	Yes	8GQTB3	Yes	No	No	Yes
6JBLK2	Yes	No	No	Yes	8P4CL8	No Interpretations Reported, DNA Analyzed for Database purposes only.			
6KLX8Q	Yes	No	No	Yes	92YHGQ	Yes	No	No	Yes
6N3WBR	Yes	No	No	Yes	93AU73	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
93UNTX	Yes	No	No	Yes	CLUXEY	Yes	No	No	Yes
9BKEAY	Yes	No	No	Yes	CQLPFL	Yes	No	No	Yes
9FF4WX	Yes	No	No	Yes	CRG9HM	No Interp	No Interp	No Interp	No Interp
9HFEJK	Yes	No	No	Yes	CUNQFH	Yes	No	No	Yes
9KP483	Yes	No	Inc	Yes	CZRXTD	Yes	No	No	Yes
9R9KLY	Yes	No	No	Yes	D39GFF	Yes	No	No	Yes
9RUXAB	Yes	No	No	Yes	DDRVHH	Yes	No	No	Yes
ACA38K	Yes	No	No	Yes	DJJZA2				
ALZT2K	Yes	No	No	Yes	DPQWBA	Yes	No	No	Yes
AP3YD6	Yes	No	No	Yes	DW4H6Q	No Interpretations Reported, DNA Analyzed for Database purposes only.			
ARJJZK	Yes	No	No	Yes	DYBZ3L	Yes	No	No	Yes
AV3BCM	Yes	No	No	Yes	E46G98	Yes	No	No	Yes
BGJKYL	Yes	No	No	Yes	EE2X6G	Yes	No	No	Yes
BKLEZB	Yes	No	No	Yes	F4J33M	Yes	No	No	Yes
BU6ZZY	Yes	No	No	Yes	F82X6E	No Interpretations Reported, DNA Analyzed for Database purposes only.			
BY3C6C	Yes	No	No	Yes	FBZ4BR	Yes	No	No	Yes
C6NQ3H	Yes	No	No	Yes	FCCMFV	Yes	No	No	Yes
C6YTNG	Yes	No	No	Yes	FHK28R	Yes	No	No	Yes
CBTXVK	Yes	No	No	Yes	FMVPQF	Yes	No	No	Yes
CGZNXQ	No Interpretations Reported, DNA Analyzed for Database purposes only.				G4D67G	Yes	No	No	Yes
CKJJZH	No Interpretations Reported, DNA Analyzed for Database purposes only.				GHZKP4	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
GNHNFx					KRBQWV	No Interp	No Interp	No Interp	No Interp
GQN96J	Yes	No	No	Yes	KXJHFN	Yes	No	No	Yes
GRZ9JL	Yes	No	No	Yes	L38KZY	Yes	No	No	Yes
GV4GTJ	Yes	No	No	Yes	L6UVJH	No Interpretations Reported, DNA Analyzed for Database purposes only.			
GYGUKC	Yes	No	No	Yes	LLGBME	Yes	No	No	Yes
HHAMVF	Yes	No	No	Yes	LUWHEX	Yes	No	No	Yes
HKU4YF	Yes	No	No	Yes	LWDER8	No Interpretations Reported, DNA Analyzed for Database purposes only.			
HPABME	Yes	No	No	Yes	M32QDB	Yes	No	No	Yes
J2JY2B	Yes	No	No	Yes	M6M467	Yes	No	No	Yes
JCJ2DE	Yes	No	No	Yes	M97LFJ	No Interpretations Reported, DNA Analyzed for Database purposes only.			
JFKZWK	Yes	No	No	Yes	MD2PEA	Yes	No	No	Yes
JQJXGY	Yes	No	No	Yes	MJLHCA	Yes	No	No	Yes
JQXUUB	Yes	No	No	Yes	MUC2YV	Yes	No	No	Yes
JVBABA	Yes	No	No	Yes	N27LFG	Yes	No	No	Yes
JYDG3F	Yes	No	No	Yes	N3EBND	No Interpretations Reported, DNA Analyzed for Database purposes only.			
K2ZEUH	No Interpretations Reported, DNA Analyzed for Database purposes only.				N7GLQM	Yes	No	No	Yes
K6DEQA	Yes	No	No	Yes	NCLHD9	Yes	No	No	Yes
K7QP4G	Yes	No	No	Yes	NHBTVJ	Yes	No	No	Yes
KBHN6C	Yes	No	No	Yes	NP8WF8	Yes	No	No	Yes
KJFNVJ	No Interpretations Reported, DNA Analyzed for Database purposes only.				NR2HBJ	Yes	No	No	Yes
KP4YXA	Yes	No	No	Yes	NTA49D	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
NVZU8J	Yes	No	No	Yes	R8JDHQ	Yes	No	No	Yes
NXRNBF	Yes	No	No	Yes	RB283B	Yes	No	No	Yes
NYWHL7	Yes	No	No	Yes	RBJPDQ	Yes	No	No	Yes
NYXNCT	Yes	No	No	Yes	RCU4R6	Yes	No	No	Yes
P2YXEU	Yes	No	No	Yes	RHWA6M	Yes	No	No	Yes
P3ADR8	Yes	No	No	Yes	RLFWQ3	Yes	No	No	Yes
P437NQ	Yes	No	No	Yes	RPJQQR	Yes	No	No	Yes
P6J3FQ	No Interp	No Interp	No Interp	No Interp	RV4NEF	Yes	No	No	Yes
P9HECQ	No Interp	No Interp	No Interp	No Interp	RVADT7	Yes	No	No	Yes
PCFM78	Yes	No	No	Yes	T2ANAH	Yes	No	No	Yes
PGVTBU	Yes	No	No	Yes	T67ZX8	Yes	No	No	Yes
PLPMT9	Yes	No	No	Yes	T6PA4A	Yes	No	No	Yes
PQ36BP	No Interpretations Reported, DNA Analyzed for Database purposes only.				TAGEVT	Yes	No	No	Yes
PYA3W8	Yes	No	No	Yes	TAL9JL	No Interpretations Reported, DNA Analyzed for Database purposes only.			
Q6EPZF	Yes	No	No	Yes	TBYC77	Yes	No	No	Yes
QDMWMN					TCRFJD	Yes	No	No	Yes
QG92FE	Yes	No	No	Yes	TED64Q	Yes	No	No	Yes
QLJ2QK	Yes	No	No	Yes	TFM8PP	Yes	No	No	Yes
QRA2W7	Yes	No	No	Yes	TKLX39	No Interpretations Reported, DNA Analyzed for Database purposes only.			
R74GPR	Yes	No	No	Yes	TV6D7B	No Interpretations Reported, DNA Analyzed for Database purposes only.			
R83UH8	Yes	No	No	Yes	TVJ283	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
TWYNXC	Yes	No	No	Yes	Y4EDY8	Yes	No	No	Yes
TY4GQP	Yes	No	No	Yes	Y7Z3JK	Yes	No	No	Yes
TYZ4CM	Yes	No	No	Yes	Y8EYVW	Yes	No	No	Yes
U4RFJB	Yes	No	No	Yes	YD39YM	Yes	No	No	Yes
U6N9L3	Yes	No	No	Yes	YHDY92	Yes	No	No	Yes
UZ6BU6	Yes	No	No	Yes	YJ7ZLY	Yes	No	No	Yes
V392KZ	Yes	No	No	Yes	YJTW2Z	Yes	No	No	Yes
V63MFC	Yes	No	No	Yes	YRJJV3	No Interpretations Reported, DNA Analyzed for Database purposes only.			
VCYRGL	Yes	No	No	Yes	YTC6CU	Yes	No	No	Yes
WD8Z2	Yes	No	No	Yes	YWEB4Z	Yes	No	No	Yes
W43EYX	Yes	No	No	Yes	YXAGF8	Yes	No	No	Yes
WJUA93	No Interp	No Interp	No Interp	No Interp	YYH7LH	Yes	No	No	Yes
WPMLHZ	Yes	No	No	Yes	YZT9A2	Yes	No	No	Yes
WT6BU4	Yes	No	No	Yes	Z6NMPJ	Yes	No	No	Yes
WVRP6D	Yes	No	No	Yes	ZADY9Y	No Interpretations Reported, DNA Analyzed for Database purposes only.			
X38NDX	No Interpretations Reported, DNA Analyzed for Database purposes only.				ZKJ878	Yes	No	No	Yes
XCB72Z	Yes	No	No	Yes	ZLPP63	Yes	No	No	Yes
XEZ3JL	Yes	No	No	Yes	ZRYR8X	Yes	No	No	Yes
XFPZGX	Yes	No	No	Yes	ZWNZHW	Yes	No	No	Yes
XXCUFW	Yes	No	No	Yes	ZZ9E2J	Yes	No	No	Yes
XYQQX2	Yes	No	No	Yes					

**DNA Interpretation****Response Summary****Participants reporting DNA results: 207**

*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)?*

	Victim (Item 1)		Suspect (Item 2)	
	<u>Item 3</u>	<u>Item 4</u>	<u>Item 3</u>	<u>Item 4</u>
Yes	<b>177</b>	<b>0</b>	<b>0</b>	<b>177</b>
No	<b>0</b>	<b>177</b>	<b>176</b>	<b>0</b>
Inc	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>
No Interpretation	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>
No Response	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>

Participants analyzing DNA for database purposes only: 21

# Additional Comments

## TABLE 5

WebCode	Additional Comments
2BMN64	Extraction: Item 1 and Item 2 were extracted by using the in-situ method. Item 3 and Item 4 were extracted by using the Chelex extraction method. Quantification: Item 3 and Item 4 were quantified using the Quantifiler™ Human DNA Quantification Kit on the Applied Biosystems™ 7500 Real-Time PCR Systems. Amplification: Item 1 and Item 2 were amplified using the AmpFLSTR™ Identifiler™ Direct and YFiler™ PCR Amplification Kits on the Applied Biosystems™ GeneAmp™ PCR System 9700. Item 3 and Item 4 were amplified using the AmpFLSTR™ Identifiler™ Plus and YFiler™ PCR Amplification Kits on the 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.
3L488R	Y-screening of Items 3 and 4 indicated the presence of male DNA.
4FRBR4	NR = no results
6JBLK2	NR = No Results
6QTU9X	NR = no results
7CLX8N	Items 1 and 2 analyzed for database purposes only. Items 3 and 4 were not tested.
7T7N7M	Y-STR not performed on Item 1 because it is the female reference sample.
7TVCJY	Extraction: Item 1 and Item 2 were extracted using in-situ method while Item 3 and Item 4 were extracted using Chelex extraction method. Quantification: DNA quantitation for Item 3 and Item 4 were carried out using the Quantifiler Human DNA Quantification kit with Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 system. Amplification: Item 1 and Item 2 were amplified using AmFISTR Identifiler Direct Kit while Item 3 and Item 4 were amplified using AmFISTR Identifiler Plus kit on 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification was carried out on Item 2, Item 3 and Item 4 using AmFISTR Y-Filer kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 1 and Item 2 (Identifiler Direct), Item 3 and Item 4 (Identifiler Plus). Electrophoresis for Y-Filer was carried out on Genetic Analyzer 3500xl for Item 2, Item 3 and Item 4. Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
87VDWZ	Extraction: Item 1 and Item 2 were extracted using in-situ method. Item 3 (Differential Extraction) and Item 4 were extracted using chelex method. Quantification: Item 3 and Item 4 were quantitated using Quantifiler Human DNA Quantification kit on QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using GlobalFiler Express PCR Amplification kit on ProFlex PCR System. Item 3 and Item 4 were amplified using AmpFLSTR Identifiler Plus PCR Amplification kit (in the midst of validating GlobalFiler Casework PCR Amplification kit) on GeneAmp PCR System 9700. Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Y-Filer PCR Amplification kit on GeneAmp PCR System 9700. Electrophoresis: Item 1, Item 2, Item 3 and Item 4 were run on ABI 3500xL Genetic Analyzer (GlobalFiler Express and Identifiler Plus). Item 2, Item 3 and Item 4 were run on ABI 3130xL Genetic Analyzer for Y-STR. Quality Control: Reagent blank, positive control and negative control were conducted throughout the analysis and given satisfactory results.
8FX678	No Comparison Performed. Item #1-3.1-E: a potential allele (18) that cannot be differentiated from artifact was observed at DYS570.
8FZUDP	Item 3 epithelial fraction SE33 -- There is a minor allele 36, which is inconsistent with being a contributor to the overall profile. The average peak height ratio of allele 36 to allele 37 is 17.70%, which exceeds the laboratory stutter threshold for this locus of 14.49%. The minor allele 36 is likely to be an elevated stutter. Item 1 and Item 2 - Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification.
8P4CL8	No comparisons performed. "NR" = no result.
92YHGQ	Item 2 was utilized to fulfill testing in data basing. Our in house process is direct amp and we only direct amp with global filer. Therefore there is no Yfiler data for this item. In a normal case work setting Yfiler would have been done on Item 2 for comparison purposes.

TABLE 5

WebCode	Additional Comments
93UNTX	NR = No Results
9KP483	The mixed profile observed in Item 3 has the Victim and one (1) other individual, including one (1) male as a contributor. The suspect can be excluded as being the source of the Y-Profile obtained from Item 3.
9R9KLY	Extraction: Item 1 and Item 2 were extracted using in-situ method. Item 3 (differential extraction method) and Item 4 were extracted using Chelex extraction method. Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Human DNA Quantification kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using GlobalFiler Express PCR Amplification Kit on ABI ProFlex PCR System. Item 3 and Item 4 were amplified using AmFLSTR Identifiler Plus PCR Amplification Kit on ABI GeneAmpPCR System 9700 (still in the midst of validating Globalfiler Casework). Item 2, Item 3 and Item 4 were further amplified using AmFLSTR Y-Filer PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis was carried out on Genetic Analyzer 3500xL for Item 1, Item 2 (GlobalFiler Express), Item 3 and Item 4 (Identifiler Plus). Electrophoresis was also carried out on Genetic Analyzer 3130xL for Item 2, Item 3 and Item 4 (Y-filer). Quality Control: Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
AP3YD6	ND = Not detected
AV3BCM	N.D.: Not Detected Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification.
CRG9HM	Test participant functions as a Y-screen technician and does not perform interpretations.
DJZA2	No comparisons performed.
E46G98	[ ] = Minor Allele; { } = Imbalanced Alleles.
FHK28R	Extraction: Item 1 and Item 2 were extracted using in-situ method. Item 3 was extracted using Chelex extraction method (differential extraction method). Item 4 was extracted using the DNA IQ kit on Tecan Freedom Evo 150 Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Human DNA Quantification kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using GlobalFiler Express PCR Amplification Kit on ABI ProFlex PCR System. Item 3 and Item 4 were amplified using AmFISTR Identifiler Plus PCR Amplification Kit on ABI GeneAmp PCR System 9700 (still in the midst of validating Globalfiler Casework). Item 2, Item 3 and Item 4 were further amplified using AmFISTR Y-Filer PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis was carried out on Genetic Analyzer 3500xL for Item 1, Item 2 (GlobalFiler Express), Item 3 and Item 4 (Identifiler Plus). Electrophoresis was also carried out on Genetic Analyzer 3130xl for Item 2, Item 3 and Item 4(Y-Filer). Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
GNHNFx	No comparisons performed.
JFKZWK	NR = No Results
KRBQWV	No comparisons performed.
LLGBME	NR = No result.
M6M467	Y-STR analysis was not performed on Item 1 because no male DNA was detected using Quantifiler Trio.
M97LFJ	NR = No Results
MD2PEA	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification.
N27LFG	[ ] = minor allele

TABLE 5

WebCode	Additional Comments
NHBTVJ	1. Extraction: (i) Item 1 and Item 2 were extracted using in-situ method; (ii) Bloodstains extraction on Item 4 was carried out with Promega DNA IQ purification kit using Tecan Freedom EVO HID Evolution platform. (iii) Differential extraction of semen stains on Item 3 was carried out using Chelex extraction method. 2. Quantification: Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification Kit on QuantStudio 5 RT-PCR. 3. Amplification on 9700 GeneAmp PCR System and Proflex PCR System (GlobalFiler Express): (i) Item 1 and Item 2 were amplified using GlobalFiler Express PCR Amplification Kit. (ii) Item 3 and Item 4 were amplified using AmpFISTR Identifiler Plus PCR Amplification Kit (In the midst of validating GlobalFiler casework). (iii) Item 2, Item 3 and Item 4 were amplified using AmpFISTR YFiler PCR Amplification Kit. 4. Electrophoresis: (i) Item 1 and Item 2 (GlobalFiler Express); Item 3 and Item 4 (Identifiler plus) were carried out on Genetic Analyzer 3500xL. (ii) Item 2, Item 3 and Item 4 (YFiler) was carried out on Genetic Analyzer 3130xL. 5. Quality Control: Reagent blank, positive and negative control were carried out through analysis and all gave intended results.
NR2HBJ	NR = No Result
NTA49D	Human blood was on confirmed on Items 3 and 4 by using the HemaTrace test kit. Sperm cells were detected on Item 3 by microscopic examination.
NVZU8J	NR = no results
NXRNBF	NR = No Results
P437NQ	ND = not detected
P6J3FQ	No comparisons performed.
P9HECQ	No comparisons performed.
PQ36BP	Abbreviations: NR - No Result, N/A - Not applicable.
QDMWMN	No comparisons performed.
QRA2W7	Items 1 and 2 - Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification. Item 3 sp at locus D12S391 – There is a minor allele 23, which is inconsistent with being a contributor to the overall profile. The average peak height ratio of allele 23 to allele 24 is 16.13%, exceeding the Laboratory's stutter threshold for this locus of 13.98%. The minor allele 23 is likely to be an elevated stutter.
R83UH8	*Sample 3E_Y has an extra peak in plus stutter position (38 at DYS518). Per discussion with my DNA TL, I have reported the extra peak in the table, but I treated the sample as single source and believe the peak is just elevated plus stutter (~20%).
RHWA6M	NR = No Result
RVADT7	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification.
T6PA4A	NR: No Results
TAL9JL	No comparisons performed. NR = No Results.
TCRFJD	NR = no results
TWYNXC	Extraction: Item 1 and Item 2 were extracted using in-situ method while Item 3 and Item 4 were extracted using the Chelex extraction method. Quantification: 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 and Item 2 were amplified using the AmpFISTR Identifiler Direct PCR Amplification Kit while 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 and Item 2 (Identifiler Direct) and Item 3 and Item 4 (Identifiler Plus). Electrophoresis for Y-Filer was carried out on the Applied Biosystems 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 results.

TABLE 5

WebCode	Additional Comments
TYZ4CM	item 3 sp - no additional peaks were detected; detected data is below stochastic threshold. -- possible additional genetic information may be present.
UZ6BU6	Hematrace was performed on Items 3 and 4. Both were positive.
VCYRGL	Allelic results for Amelogenin for Item 2 (suspect) are not reported since they do not fulfill the laboratory's requirements regarding quality.
WJUA93	Test participant functions as Y-screen technician and does not perform interpretations.
XCB72Z	NR = no result
Y4EDY8	NR indicates No Results
Y7Z3JK	{ } = Imbalanced alleles. [ ] = designates a minor allele.
YHDY92	A portion of the extracts from Item 3 and Item 4 were tested for the presence of human blood using the ABACard HemaTrace test. Human blood was detected on Items 3A and 4A. NOTE: the HemaTrace test is known to cross-react with some species of the Mustelidae family and with higher primates. Portions of Item 3 were tested for the presence of sperm using the Christmas Tree Stain method. Sperm cells were detected on Items 3A and 3B.
ZADY9Y	Test participant functions as Y-screen technician and does not perform interpretations.
ZLPP63	NR = No Results
ZWNZHW	Item 1 and 2 results are only entered for Globalfiler loci as casework reporting is based on Globalfiler loci. Powerplex Fusion 6C is only used for allele verification.

-End of Report-  
(Appendix may follow)



## Test No. 20-5802: DNA-Semen

DATA MUST BE SUBMITTED BY **June 1, 2020, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234D

WebCode: JJ23JW

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 while walking home from work a car pulled up next to her and she was pulled in by a masked man. The victim was driven to an abandoned parking lot where she was beaten and sexually assaulted. The victim was eventually able to fight him off and escape out of the car. She ran to a nearby convenience store for help. Police identified a car matching the victim's description in the area and arrested a suspect. The victim also indicated she had consensual sex with her husband the night prior to the assault. Investigators are submitting a stain from the underwear (Item 3) and the shirt (Item 4) the victim was wearing. 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 (victim's shirt) is positive for blood. Also collected were known blood samples from the female victim (Item 1) and the male suspect (Item 2). Known samples from the victim's husband were not collected at this time.

### **Items Submitted (Sample Pack S2):**

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"/>	Yes	<input type="radio"/>
No		<input type="radio"/>	<input type="radio"/>	No	<input type="radio"/>
Inconclusive		<input type="radio"/>	<input type="radio"/>	Inconclusive	<input type="radio"/>
No Interpretation		<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)