



## **DNA-Semen Test No. 22-5802**

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

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

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

## **Manufacturer's Information**

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

**SAMPLE PREPARATION:** The stains in Items 1, 2, and 3 were prepared from human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. The stain in Item 4 was a mixture prepared from human whole blood and semen. The semen sample was first thawed and mixed 1:1 with TAE buffer, then mixed 1:1 with the blood. Item 1 (75  $\mu$ l) was prepared using blood collected from a female donor. Item 2 (75  $\mu$ l) was created using blood collected from a male donor. Item 3 (50  $\mu$ l) was created using blood collected from a male donor, but one different than that of Item 2. Item 4 (50  $\mu$ l) was created using a mixture of blood from the female donor used in Item 1 and semen from the male donor used in Item 2. 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 February 28, 2022 following completion of verification stage.

**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 and sealed. The sealed sample pack envelopes were then packaged in pre-labeled heat seal envelopes and sealed. This process was repeated until all of the sample sets were prepared.

**VERIFICATION:** Laboratories that conducted predistribution analysis of the samples reported consistent allelic results and confirmed the manufacturer's expected associations.

## Manufacturer's Information, continued

<b>Amelogenin and STR Results</b>						
<i>Results compiled from predistribution laboratories and a consensus of at least 10 participants.</i>						
<b>Item</b>	<b>D1S1656</b>	<b>D2S1338</b>	<b>D2S441</b>	<b>D3S1358</b>	<b>D5S818</b>	<b>D6S1043</b>
	<b>D7S820</b>	<b>D8S1179</b>	<b>D10S1248</b>	<b>D12S391</b>	<b>D13S317</b>	<b>D16S539</b>
	<b>D18S51</b>	<b>D19S433</b>	<b>D21S11</b>	<b>D22S1045</b>	<b>Amelogenin</b>	<b>CSF1PO</b>
	<b>FGA</b>	<b>Penta D</b>	<b>Penta E</b>	<b>SE33</b>	<b>TH01</b>	<b>TPOX</b>
	<b>vWA</b>	<b>DYS391</b>	<b>DYS570</b>	<b>DYS576</b>	<b>Y Indel</b>	
1	16,18.3	21,26	11,12	15,17	11,12	*
	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	NM	NM	NM	NM	
2	14,16.3	17,24	11,14	16,18	11,12	*
	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19	2	
3	15,15.3	20,25	11.3,14	14,17	12,13	*
	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20	2	
4-Blood	16,18.3	21,26	11,12	15,17	11,12	*
	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	NM	NM	NM	NM	
4-Semen	14,16.3	17,24	11,14	16,18	11,12	*
	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19	2	

<b>YSTR Results</b>									
<i>Results compiled from predistribution laboratories and a consensus of at least 10 participants.</i>									
<b>Item</b>	<b>DYF387S1</b>	<b>DYS19</b>	<b>DYS385</b>	<b>DYS389-I</b>	<b>DYS389-II</b>	<b>DYS390</b>	<b>DYS391</b>	<b>DYS392</b>	<b>DYS393</b>
	<b>DYS437</b>	<b>DYS438</b>	<b>DYS439</b>	<b>DYS448</b>	<b>DYS449</b>	<b>DYS456</b>	<b>DYS458</b>	<b>DYS460</b>	<b>DYS481</b>
	<b>DYS518</b>	<b>DYS533</b>	<b>DYS549</b>	<b>DYS570</b>	<b>DYS576</b>	<b>DYS627</b>	<b>DYS635</b>	<b>DYS643</b>	<b>Y GATA H4</b>
2	35,36	14	11,14	13	29	24	11	14	12
	15	12	12	19	30	15	17	11	22
	38	12	12	17	19	23	23	10	13
3	37,40	14	16,16	13	29	25	10	13	12
	14	11	10	20	28	17	16.2	11	26
	41	12	12	19	20	21	21	9	10
4-Semen	35,36	14	11,14	13	29	24	11	14	12
	15	12	12	19	30	15	17	11	22
	38	12	12	17	19	23	23	10	13

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

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

## **Summary Comments**

The 22-5802 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 prepared using blood collected from a female donor. Item 2 was created using blood collected from a male donor. Item 3 was created using blood collected from a male donor, but one different than that of Item 2. Item 4 was created using a mixture of blood from the female donor used in Item 1 and semen from the male donor used in Item 2. (See Manufacturer's Information for preparation details)

Of the 195 participants that returned results, 165 reported DNA interpretations. Three participants did not respond, 25 stated that the samples were analyzed for database purposes only, and two selected the "No Interpretations" option for all Interpretation questions.

For the Item 3 stain, all responding participants excluded the victim (Item 1) as a possible contributor. All but two participants excluded the suspect (Item 2) as a possible contributor. The two remaining participants included the suspect (Item 2) as a possible contributor.

For the Item 4 stain, all but one participant included the victim (Item 1) as a possible contributor. The remaining participant excluded the victim (Item 1) as a possible contributor. All responding participants included the suspect (Item 2) as a possible contributor.

A total of 38 participants reported the use of Probabilistic Genotyping (PG) software on either solely the questioned items or all four items. One of these participants reported additional alleles at several loci. Based on the interpretations described above, these inconsistencies did not appear to affect the participant's conclusions.

For Item 4-Semen, five participants reported the alleles "18,20,21" at locus D12S391. A majority of these participants noted that the "20" allele is likely elevated stutter. One of these participants included the suspect (Item 2) as a contributor to the Item 3 stain. The remaining participants' conclusions did not appear to be affected by the inconsistency.

# 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

2JRNH2	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
2TUB6R	GlobalFiler™ Express					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17	No results			No results	
2VNYNN	PowerPlex® Fusion 6C, GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21			19,24.2	6,7	8,11
	14,17	N.D.			N.D.	
38ZG4X	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	No results	No results	No results		
3BW84H	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
3C4MEU	GlobalFiler™ Express					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21			19,24.2	6,7	8,11
	14,17	No Results			No Results	

TABLE 1

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

## Item 1 - STR Results

3DZ6CP	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
3NYTCY	GlobalFiler™ (STRmix)					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
3PGKN4	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
44TKTT	GlobalFiler™ Express					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17	No Results			No Results	
4EQNTG	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
4GD3HQ	PowerPlex® Fusion					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	9	5,10		6,7	8,11
	14,17	NR				
4NEG6D	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					

TABLE 1

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

## Item 1 - STR Results

4X46XU	GlobalFiler™ Express					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17	NM			NM	
4YWYXK	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
66H4ER	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	NR	NR	NR		
66J9KM	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
69HFAR	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	NR	NR	NR		
69HJGM	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
6JJRHE	GlobalFiler™ (STRmix)					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					

TABLE 1

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

## Item 1 - STR Results

6K9DTG	GlobalFiler™ Express					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17	No results			No results	
6YP97R	Investigator® 24plex					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17	No Results				
7A93XE	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
7HHCMT	GlobalFiler™ Express					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17	NM			NM	
7HYN3D	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	--
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	--	--	19,24.2	6,7	8,11
	14,17	--	--	--	--	
7KLAUF	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
7KM3RM	GlobalFiler™ Express					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17	No Results			No Results	



TABLE 1

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

## Item 1 - STR Results

7NUB3T	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	ND	ND	ND		
7QE6YT	PowerPlex® 5C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10		6,7	8,11
	14,17	No Results				
7QHPR3	Investigator® 24plex GO!					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
7QVJ83	Investigator® 24plex GO!					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
7RQ4RG	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
7RRYFT	PowerPlex® 5C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10		6,7	8,11
	14,17	No Results				
7VRGN3	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					

TABLE 1

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

## Item 1 - STR Results

842QMZ	Investigator® 24plex GO!					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
8CTDAP	Investigator® 24plex					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17	No Results				
8DQFJN	PowerPlex® Fusion 6C (STRmix)					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	NR	NR	NR		
8HF27G	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
8KJYFN	PowerPlex® Fusion 5C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10		6,7	8,11
	14,17	No Results				
96QUX2	Identifiler® Plus					
		21,26		15,17	11,12	
1	10,10	10,14			13,13	9,14
	13,16	13,15	31,32.2		XX	10,11
	20,21				6,7	8,11
	14,17					
97JFFC	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17					

TABLE 1

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

## Item 1 - STR Results

9DG8LK	GlobalFiler™ Express					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17	No Results			No Results	
9K227W	Investigator® 24plex GO!					
	16,18.3	21,26	11,12	15,17	11,12	N/A
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	N/A	N/A	19,24.2	6,7	8,11
	14,17	N/A	N/A	N/A	N/A	
9LAHWF	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
9NXWKP	Identifiler® Direct					
		21,26		15,17	11,12	
1	10	10,14			13	9,14
	13,16	13,15	31,32.2		XX	10,11
	20,21				6,7	8,11
	14,17					
9PWWNV	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
9QAJ6P	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	NR	NR	NR		
9U79LW	Investigator® 24plex GO!					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					

TABLE 1

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

## Item 1 - STR Results

9V3NTM	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	No Results				
9ZEG6L	GlobalFiler™ Express					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17	No results			No results	
A3GYH8	PowerPlex® Fusion 5C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	9	5,10		6,7	8,11
	14,17					
A6LKEK	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	NR	NR	NR		
A86L98	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	9	5,10	19,24.2	6,7	8,11
	14,17					
A9Z4B9	GlobalFiler™ (STRmix)					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
ADY9CT	PowerPlex® Fusion					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21	9,9	5,10		6,7	8,11
	14,17	N.R.				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

AF3DJL	PowerPlex® Fusion					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10		6,7	8,11
	14,17	No Results				
AGXWKM	PowerPlex® Fusion 5C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10		6,7	8,11
	14,17	No Results				
AJ2MUN	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	No Results	No Results	No Results		
APBNBL	PowerPlex® Fusion					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	9	5,10		6,7	8,11
	14,17	NR				
ATNQTB	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
AZB8WL	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	NR	NR	NR		
B63VQY	Investigator® 24plex GO!					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					

TABLE 1

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

## Item 1 - STR Results

B6LNKG	PowerPlex® Fusion					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	9	5,10		6,7	8,11
	14,17	NR				
B6Y9DQ	GlobalFiler™ (STRmix v2.7)					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
B6ZBXP	Investigator® 24plex					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17	N/A				
BB6A8T	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
BJYCFW	Investigator® 24plex GO!					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
BVBMFY	PowerPlex® Fusion					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	9	5,10		6,7	8,11
	14,17	NR				
BWBHTK	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	NR	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

BYBTHR	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
BYUJM7	PowerPlex® Fusion 6C (STRmix 2.6.3)					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	9	5,10	19,24.2	6,7	8,11
	14,17					
C3NZD6	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
C4JHE7	GlobalFiler™ (STRmix)					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
CYRCXJ	Investigator® 24plex					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17	No Results				
D8JYDL	GlobalFiler™ (STRmix)					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
DHVD89	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					

TABLE 1

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

## Item 1 - STR Results

DK4N4C	PowerPlex® Fusion 6C, GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17	Not Detected			Not Detected	
EHT7HK	Identifiler® Direct					
		21,26		15,17	11,12	
1	10	10,14			13	9,14
	13,16	13,15	31,32.2		XX	10,11
	20,21				6,7	8,11
	14,17					
EM9GT4	GlobalFiler™ (STRmix)					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
EPD3PG	PowerPlex® 5C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	Not Tested	6,7	8,11
	14,17	No Results				
EQQN4P	PowerPlex® Fusion					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10		6,7	8,11
	14,17	NR				
EU74PA	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
EVH3JJ	GlobalFiler™ Express					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17	NM			NM	



TABLE 1

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

## Item 1 - STR Results

EWDLLK	PowerPlex® Fusion 5C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10		6,7	8,11
	14,17					
EWUHDK	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
F3X4G8	GlobalFiler™ IQC					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
FB9639	PowerPlex® Fusion 6C, GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	XX	10,11
	20,21	9	5,10	19,24.2	6,7	8,11
	14,17	/	/	/	/	
FCJ62N	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
FFHGWN	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
FMJTWQ	Investigator® 24plex GO!					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					

TABLE 1

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

## Item 1 - STR Results

FQLUXN	PowerPlex® Fusion					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21	9,9	5,10		6,7	8,11
	14,17	NR				
G7B4CD	PowerPlex® Fusion					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	9	5,10		6,7	8,11
	14,17	NR				
G8BY6H	PowerPlex® Fusion 6C (STRmix)					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	NR	NR	NR		
GHP2H3	PowerPlex® Fusion 5C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	9	5,10		6,7	8,11
	14,17					
GJZ8F4	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
GQXUBA	PowerPlex® Fusion					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	9	5,10		6,7	8,11
	14,17	NR				
GRRJT6	PowerPlex® Fusion 5C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	9	5,10		6,7	8,11
	14,17					

TABLE 1

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

## Item 1 - STR Results

GUGRYZ	GlobalFiler™ (STRmix)					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
GWRMRJ	PowerPlex® 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	No Results	No Results	No Results		
GXLBAE	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	NR	NR	NR		
GZQ2CN	Investigator® 24plex GO!					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
H42DQF	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	No Results	No Results	No Results		
H4LAWN	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
HBKL7Z	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					

TABLE 1

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

## Item 1 - STR Results

HFFBQD	PowerPlex® Fusion					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	9	5,10		6,7	8,11
	14,17	NR				
HQFYQM	Investigator® 24plex GO!					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
HXCZM8	PowerPlex® Fusion 6C, GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17	Not Detected			Not Detected	
JXANJB	Investigator® 24plex					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17	No Results				
JXBH7N	Investigator® 24plex GO!					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
K8C9JH	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
K9KKWD	GlobalFiler™ Express					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17	NM			NM	

TABLE 1

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

## Item 1 - STR Results

KECM6K	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
KUM9NA	GlobalFiler™ Express					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17	No Results			No Results	
KWTQQC	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
KWGYF	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
KY249D	Investigator® 24plex					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21			19,24.2	6,7	8,11
	14,17	No Results				
L66AJA	PowerPlex® Fusion 5C, MiniFiler					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21	9,9	5,10		6,7	8,11
	14,17	No Results				
LB8JP3	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					

TABLE 1

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

## Item 1 - STR Results

LH89HM	PowerPlex® ESX17					
	16,18.3	21,26	11,12	15,17		
1		10,14	14,16	17,21		9,14
	13,16	13,15	31,32.2	15	X	
	20,21			19,24.2	6,7	
	14,17					
LNY6XJ	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1		10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
LQ6LBG	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1		10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	NR	NR	NR		
LQ6NZK	Investigator® 24plex GO!					
	16,18.3	21,26	11,12	15,17	11,12	N/A
1		10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	N/A	N/A	19,24.2	6,7	8,11
	14,17	N/A	N/A	N/A	N/A	
LTPF8G	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1		10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
LYYFPE	GlobalFiler™ Express					
	16,18.3	21,26	11,12	15,17	11,12	
1		10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
M4NDTV	PowerPlex® Fusion 5C					
	16,18.3	21,26	11,12	15,17	11,12	
1		10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	9	5,10		6,7	8,11
	14,17					

TABLE 1

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

## Item 1 - STR Results

M7VXEB	Investigator® 24plex					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17	No Results				
MBQFZG	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
MGCKNB	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	No Results	No Results	No Results		
MHRUM4	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
MUF32W	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
MW4GQ7	GlobalFiler™ Express					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17	No Results			No Results	
NJD32X	PowerPlex® Fusion 6C, GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17	Not Detected			Not Detected	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

PCEV4A	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	ND	ND	ND		
PE2ATJ	Investigator® 24plex GO!					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
PEYP2A	PowerPlex® Fusion 5C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21	9,9	5,10		6,7	8,11
	14,17	No Results				
PK4GA8	PowerPlex® ESX 16 Fast					
	16,18.3	21,26	11,12	15,17		
1		10,14	14,16	17,21		9,14
	13,16	13,15	31,32.2	15	X	
	20,21				6,7	
	14,17					
Q4UYT8	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
Q67QRF	Investigator® 24plex GO!					
	16,18.3	21,26	11,12	15,17	11,12	N/A
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	N/A	N/A	19,24.2	6,7	8,11
	14,17	N/A	N/A	N/A	N/A	
QA2KPG	GlobalFiler™ (STRmix)					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					



TABLE 1

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

## Item 1 - STR Results

QA2Z6H	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17	NR			NR	
QBZX9	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	No Results	No Results	No Results		
QVJWAR	PowerPlex® Fusion 5C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	XX	10,11
	20,21	9	5,10		6,7	8,11
	14,17					
QWR3T8	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	9	5,10	19,24.2	6,7	8,11
	14,17					
QWX28Q	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
QZELU7	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
QZFGGH	Investigator® 24plex GO!					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					

TABLE 1

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

## Item 1 - STR Results

R4PY8X	PowerPlex® Fusion 6C, GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21			19,24.2	6,7	8,11
	14,17	Not Detected			Not Detected	
R8UK4B	PowerPlex® Fusion					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21	9,9	5,10		6,7	8,11
	14,17	NR				
REB3J4	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
RHBA3F	Investigator® 24plex GO!					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
RNBZYQ	GlobalFiler™ (STRmix)					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
RNCTWY	PowerPlex® Fusion					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	9	5,10		6,7	8,11
	14,17	NR				
RNYYGX	PowerPlex® Fusion 6C, GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21			19,24.2	6,7	8,11
	14,17	Not Detected			Not Detected	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

RPBNQ3	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	NR	NR	NR		
RX4YXC	PowerPlex® Fusion					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10		6,7	8,11
	14,17	ND				
T8BX8E	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17	--			--	
TAFQ2C	Investigator® 24plex GO!					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
TFG3XA	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	NR	NR	NR		
TGVC34	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
TLNE9N	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					

TABLE 1

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

## Item 1 - STR Results

TXJHHA	PowerPlex® Fusion					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10		6,7	8,11
	14,17	NR				
TXY238	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	No Results	No Results	No Results		
U3C4P3	PowerPlex® 21					
	16,18.3	21,26		15,17	11,12	11,12
1	10,10	10,14		17,21	13,13	9,14
	13,16	13,15	31,32.2		XX	10,11
	20,21	9,9	5,10		6,7	8,11
	14,17					
U6D6PZ	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	NR	NR	NR		
UXDWYY	GlobalFiler™ Express (STRmix)					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17	No Results			No Results	
UYCTT3	Identifiler® Plus					
		21,26		15,17	11,12	
1	10,10	10,14			13,13	9,14
	13,16	13,15	31,32.2		XX	10,11
	20,21				6,7	8,11
	14,17					
VHXLXC	NGM SElect					
	16,18.3	21,26	11,12	15,17		
1		10,14	14,16	17,21		9,14
	13,16	13,15	31,32.2	15,15	XX	
	20,21			19,24.2	6,7	
	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

VLJTE7	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
VTZA49	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
W7K9A2	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	No Results	No Results	No Results		
WHRQRC	PowerPlex® ESI17					
	16,18.3	21,26	11,12	15,17		
1		10,14	14,16	17,21		9,14
	13,16	13,15	31,32.2	15	X	
	20,21			19,24.2	6,7	
	14,17					
WR3HAZ	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
WWE77P	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					
X3DFN3	Identifiler® Direct					
		21,26		15,17	11,12	
1	10	10,14			13	9,14
	13,16	13,15	31,32.2		XX	10,11
	20,21				6,7	8,11
	14,17					

TABLE 1

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

## Item 1 - STR Results

X8AW99	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21			19,24.2	6,7	8,11
	14,17	--			--	
XC8DL3	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17	No Results	No Results	No Results		
XCNGA3	Identifiler® Direct					
		21,26		15,17	11,12	
1	10	10,14			13	9,14
	13,16	13,15	31,32.2		X,X	10,11
	20,21				6,7	8,11
	14,17					
XDYG9H	PowerPlex® Fusion 5C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	9	5,10		6,7	8,11
	14,17					
XG38J4	GlobalFiler™ (STRmix)					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
XGXR4H	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
XHCCU8	Investigator® 24plex GO!					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					

TABLE 1

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

## Item 1 - STR Results

XNHTKV	PowerPlex® Fusion					
		16,18.3	21,26	11,12	15,17	11,12
	1	10	10,14	14,16	17,21	13
		13,16	13,15	31,32.2	15	X
		20,21	9	5,10		6,7
	14,17	NR				
XPRVAZ	Investigator® 24plex					
		16,18.3	21,26	11,12	15,17	11,12
	1	10,10	10,14	14,16	17,21	13,13
		13,16	13,15	31,32.2	15,15	XX
		20,21			19,24.2	6,7
	14,17	No Results				
XRWJUW	PowerPlex® Fusion 6C					
		16,18.3	21,26	11,12	15,17	11,12
	1	10,10	10,14	14,16	17,21	13,13
		13,16	13,15	31,32.2	15	XX
		20,21	9,9	5,10	19,24.2	6,7
	14,17	NR	NR	NR		
XU7FEZ	Investigator® 24plex					
		16,18.3	21,26	11,12	15,17	11,12
	1	10,10	10,14	14,16	17,21	13,13
		13,16	13,15	31,32.2	15,15	XX
		20,21			19,24.2	6,7
	14,17	No Results				
YCZL8R	GlobalFiler™					
		16,18.3	21,26	11,12	15,17	11,12
	1	10,10	10,14	14,16	17,21	13,13
		13,16	13,15	31,32.2	15,15	XX
		20,21			19,24.2	6,7
	14,17					
YRVV3K	GlobalFiler™ (STRmix)					
		16,18.3	21,26	11,12	15,17	11,12
	1	10	10,14	14,16	17,21	13
		13,16	13,15	31,32.2	15	X
		20,21			19,24.2	6,7
	14,17					
YRXMZR	PowerPlex® Fusion					
		16,18.3	21,26	11,12	15,17	11,12
	1	10	10,14	14,16	17,21	13
		13,16	13,15	31,32.2	15	X
		20,21	9	5,10		6,7
	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

ZARTPX	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	X	10,11
	20,21	9	5,10	19,24.2	6,7	8,11
	14,17					
ZAUM94	PowerPlex® Fusion					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10		6,7	8,11
	14,17	NR				
ZEH8BY	PowerPlex® Fusion 5C					
	16,18.3	21,26	11,12	15,17	11,12	Not Tested
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	Not Tested	6,7	8,11
	14,17	No results	Not Tested	Not Tested	Not Tested	
ZKAHKW	GlobalFiler™ (TrueAllele)					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,31.2	15	X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
ZWHZEL	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
1	10	10,14	14,16	17,21	13	9,14
	13,16	13,15	31,32.2	15	XX	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
ZYA44L	PowerPlex® Fusion 6C					
	16,18.3	21,26	11,12	15,17	11,12	
1	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	XX	10,11
	20,21	9,9	5,10	19,24.2	6,7	8,11
	14,17					



TABLE 1

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

## Item 2 - STR Results

2JRNH2	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
2TUB6R	GlobalFiler™ Express					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
2VNYNN	PowerPlex® Fusion 6C, GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
38ZG4X	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
3BW84H	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
3C4MEU	GlobalFiler™ Express					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
3DZ6CP	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	

TABLE 1

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

## Item 2 - STR Results

3NYTCY	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
3PGKN4	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
44TKTT	GlobalFiler™ Express					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
4EQNTG	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
4GD3HQ	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	11				
4NEG6D	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
4X46XU	GlobalFiler™ Express					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	

TABLE 1

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

## Item 2 - STR Results

4YWYXK	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
66H4ER	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
66J9KM	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
69HFAR	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
69HJGM	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
6JJRHE	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
6K9DTG	GlobalFiler™ Express					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	

TABLE 1

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

## Item 2 - STR Results

6YP97R	Investigator® 24plex					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11				
7A93XE	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
7HHCMT	GlobalFiler™ Express					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
7HYN3D	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	--
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	--	--	29.2,29.2	9,9.3	8,8
	14,17	11	--	--	2	
7KLAUF	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
7KM3RM	GlobalFiler™ Express					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
7NUB3T	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		

TABLE 1

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

## Item 2 - STR Results

7QE6YT	PowerPlex® 5C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	11				
7QHPR3	Investigator® 24plex GO!					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11				
7QVJ83	Investigator® 24plex GO!					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11				
7RQ4RG	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
7RRYFT	PowerPlex® 5C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	11				
7VRGN3	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
842QMZ	Investigator® 24plex GO!					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	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 2 - STR Results

8CTDAP	Investigator® 24plex					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11				
8DQFJN	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
8HF27G	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
8KJYFN	PowerPlex® Fusion 5C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	11				
96QUX2	Identifiler® Plus					
		17,24		16,18	11,12	
2	9,11	13,13			11,14	11,12
	16,17	15,16.2	30,30		X,Y	11,12
	20,22				9,9.3	8,8
	14,17					
97JFFC	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
9DG8LK	GlobalFiler™ Express					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	

TABLE 1

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

## Item 2 - STR Results

9K227W	Investigator® 24plex GO!					
	14,16.3	17,24	11,14	16,18	11,12	N/A
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	N/A	N/A	29.2	9,9.3	8
	14,17	11	N/A	N/A	N/A	
9LAHWF	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
9NXWKP	Identifiler® Direct					
		17,24		16,18	11,12	
2	9,11	13			11,14	11,12
	16,17	15,16.2	30		X,Y	11,12
	20,22				9,9.3	8
	14,17					
9PWWNV	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
9QAJ6P	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
9U79LW	Investigator® 24plex GO!					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11				
9V3NTM	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		

TABLE 1

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

## Item 2 - STR Results

9ZEG6L	GlobalFiler™ Express					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
A3GYH8	PowerPlex® Fusion 5C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	11				
A6LKEK	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
A86L98	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2	9,9.3	8
	14,17	11	17	19		
A9Z4B9	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
ADY9CT	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	11				
AF3DJL	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	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 2 - STR Results

AGXWKM	PowerPlex® Fusion 5C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	11				
AJ2MUN	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
APBNBL	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	11				
ATNQTB	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
AZB8WL	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
B63VQY	Investigator® 24plex GO!					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11				
B6LNKG	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	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 2 - STR Results

B6Y9DQ	GlobalFiler™ (STRmix v2.7)					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
B6ZBXP	Investigator® 24plex					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11				
BB6A8T	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
BJYCFW	Investigator® 24plex GO!					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11				
BVBMFY	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	11				
BWBHTK	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
BYBTHR	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		

TABLE 1

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

## Item 2 - STR Results

BYUJM7	PowerPlex® Fusion 6C (STRmix 2.6.3)					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2	9,9.3	8
	14,17	11	17	19		
C3NZD6	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
C4JHE7	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
CYRCXJ	Investigator® 24plex					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11				
D8JYDL	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
DHVD89	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
DK4N4C	PowerPlex® Fusion 6C, GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	

TABLE 1

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

## Item 2 - STR Results

EHT7HK	Identifiler® Direct					
		17,24		16,18	11,12	
2	9,11	13			11,14	11,12
	16,17	15,16.2	30		X,Y	11,12
	20,22				9,9.3	8
	14,17					
EM9GT4	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
EPD3PG	PowerPlex® 5C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	Not Tested	9,9.3	8,8
	14,17	11				
EQQN4P	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	11				
EU74PA	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
EVH3JJ	GlobalFiler™ Express					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
EWDLLK	PowerPlex® Fusion 5C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	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 2 - STR Results

EWUHDK	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
F3X4G8	GlobalFiler™ IQC					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
FB9639	PowerPlex® Fusion 6C, GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2	9,9.3	8
	14,17	11	17	19	2	
FCJ62N	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
FFHGWN	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
FMJTWQ	Investigator® 24plex GO!					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11				
FQLUXN	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	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 2 - STR Results

G7B4CD	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	11				
G8BY6H	PowerPlex® Fusion 6C (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
GHP2H3	PowerPlex® Fusion 5C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	11				
GJZ8F4	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
GQXUBA	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	11				
GRRJT6	PowerPlex® Fusion 5C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	11				
GUGRYZ	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	

TABLE 1

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

## Item 2 - STR Results

GWRMRJ	PowerPlex® 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
GXLBAE	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
GZQ2CN	Investigator® 24plex GO!					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11				
H42DQF	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
H4LAWN	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
HBKL7Z	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
HFFBQD	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	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 2 - STR Results

HQFYQM	Investigator® 24plex GO!					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11				
HXCZM8	PowerPlex® Fusion 6C, GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
JXANJB	Investigator® 24plex					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11				
JXBH7N	Investigator® 24plex GO!					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11				
K8C9JH	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
K9KKWD	GlobalFiler™ Express					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
KECM6K	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		



TABLE 1

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

## Item 2 - STR Results

KUM9NA	GlobalFiler™ Express					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
KWTQQC	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
KWVGYP	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
KY249D	Investigator® 24plex					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11				
L66AJA	PowerPlex® Fusion 5					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	11				
LB8JP3	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
LH89HM	PowerPlex® ESX17					
	14,16.3	17,24	11,14	16,18		
2		13	13,14	18,21		11,12
	16,17	15,16.2	30	15,16	X,Y	
	20,22			29.2	9,9.3	
	14,17					

TABLE 1

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

## Item 2 - STR Results

LNY6XJ	PowerPlex® Fusion 6C						
		14,16.3	17,24	11,14	16,18	11,12	
	2	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
		14,17	11	17	19		
LQ6LBG	PowerPlex® Fusion 6C						
		14,16.3	17,24	11,14	16,18	11,12	
	2	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
		14,17	11	17	19		
LQ6NZK	Investigator® 24plex GO!						
		14,16.3	17,24	11,14	16,18	11,12	N/A
	2	9,11	13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22	N/A	N/A	29.2	9,9.3	8
		14,17	11	N/A	N/A	N/A	
LTPF8G	PowerPlex® Fusion 6C						
		14,16.3	17,24	11,14	16,18	11,12	
	2	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
		14,17	11	17	19		
LYYFPE	GlobalFiler™ Express						
		14,16.3	17,24	11,14	16,18	11,12	
	2	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22			29.2,29.2	9,9.3	8,8
		14,17	11,11			2	
M4NDTV	PowerPlex® Fusion 5C						
		14,16.3	17,24	11,14	16,18	11,12	
	2	9,11	13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22	12,14	10,14		9,9.3	8
		14,17	11				
M7VXEB	Investigator® 24plex						
		14,16.3	17,24	11,14	16,18	11,12	
	2	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22			29.2,29.2	9,9.3	8,8
		14,17	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 2 - STR Results

MBQFZG	GlobalFiler™					
		14,16.3	17,24	11,14	16,18	11,12
	2	9,11	13	13,14	18,21	11,14
		16,17	15,16.2	30	15,16	X,Y
		20,22			29.2	9,9.3
	14,17	11			2	
MGCKNB	PowerPlex® Fusion 6C					
		14,16.3	17,24	11,14	16,18	11,12
	2	9,11	13,13	13,14	18,21	11,14
		16,17	15,16.2	30,30	15,16	X,Y
		20,22	12,14	10,14	29.2,29.2	9,9.3
	14,17	11	17	19		
MHRUM4	GlobalFiler™					
		14,16.3	17,24	11,14	16,18	11,12
	2	9,11	13,13	13,14	18,21	11,14
		16,17	15,16.2	30,30	15,16	X,Y
		20,22			29.2,29.2	9,9.3
	14,17	11			2	
MUF32W	GlobalFiler™					
		14,16.3	17,24	11,14	16,18	11,12
	2	9,11	13,13	13,14	18,21	11,14
		16,17	15,16.2	30,30	15,16	X,Y
		20,22			29.2,29.2	9,9.3
	14,17	11			2	
MW4GQ7	GlobalFiler™ Express					
		14,16.3	17,24	11,14	16,18	11,12
	2	9,11	13	13,14	18,21	11,14
		16,17	15,16.2	30	15,16	X,Y
		20,22			29.2	9,9.3
	14,17	11			2	
NJD32X	PowerPlex® Fusion 6C, GlobalFiler™					
		14,16.3	17,[23],24	11,14	16,18	11,12
	2	9,11	13,13	13,14	18,21	11,14
		16,17	15,16.2	30,30	15,16	X,Y
		20,22			29.2,29.2	9,9.3
	14,17	11			2	
PCEV4A	PowerPlex® Fusion 6C					
		14,16.3	17,24	11,14	16,18	11,12
	2	9,11	13,13	13,14	18,21	11,14
		16,17	15,16.2	30,30	15,16	X,Y
		20,22	12,14	10,14	29.2,29.2	9,9.3
	14,17	11	17	19		

TABLE 1

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

## Item 2 - STR Results

PE2ATJ	Investigator® 24plex GO!					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11				
PEYP2A	PowerPlex® Fusion 5C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	11				
PK4GA8	PowerPlex® ESX 16 FAST					
	14,16.3	17,24	11,14	16,18		
2		13	13,14	18,21		11,12
	16,17	15,16.2	30	15,16	X,Y	
	20,22				9,9.3	
	14,17					
Q4UYT8	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
Q67QRF	Investigator® 24plex GO!					
	14,16.3	17,24	11,14	16,18	11,12	N/A
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	N/A	N/A	29.2	9,9.3	8
	14,17	11	N/A	N/A	N/A	
QA2KPG	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
QA2Z6H						
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	

TABLE 1

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

## Item 2 - STR Results

QBXZX9	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
QVJWAR	PowerPlex® Fusion 5C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	11				
QWR3T8	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2	9,9.3	8
	14,17	11	17	19		
QWX28Q	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
QZELU7	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
QZFGGH	Investigator® 24plex GO!					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11				
R4PY8X	PowerPlex® Fusion 6C, GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	

TABLE 1

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

## Item 2 - STR Results

R8UK4B	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	11				
REB3J4	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
RHBA3F	Investigator® 24plex GO!					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11				
RNBZYQ	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
RNCTWY	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	11				
RNYYGX	PowerPlex® Fusion 6C, GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
RPBNQ3	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		

TABLE 1

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

## Item 2 - STR Results

RX4YXC	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	11				
T8BX8E	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
TAFQ2C	Investigator® 24plex GO!					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11				
TFG3XA	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
TGVC34	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
TLNE9N	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
TXJHHA	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	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 2 - STR Results

TXY238	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
U3C4P3	PowerPlex® 21					
	14,16.3	17,24		16,18	11,12	11,13
2	9,11	13,13		18,21	11,14	11,12
	16,17	15,16.2	30,30		X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17					
U6D6PZ	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
UXDWYY	GlobalFiler™ Express (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
UYCTT3	Identifiler® Plus					
		17,24		16,18	11,12	
2	9,11	13,13			11,14	11,12
	16,17	15,16.2	30,30		X,Y	11,12
	20,22				9,9.3	8,8
	14,17					
VHXLXC	NGM SElect					
	14,16.3	17,24	11,14	16,18		
2		13,13	13,14	18,21		11,12
	16,17	15,16.2	30,30	15,16	X,Y	
	20,22			29.2,29.2	9,9.3	
	14,17					
VLJTE7	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	



TABLE 1

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

## Item 2 - STR Results

VTZA49	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
W7K9A2	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
WHRQRC	PowerPlex® ESI17					
	14,16.3	17,24	11,14	16,18		
2		13	13,14	18,21		11,12
	16,17	15,16.2	30	15,16	X,Y	
	20,22			29.2	9,9.3	
	14,17					
WR3HAZ	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
WWE77P	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
X3DFN3	Identifiler® Direct					
		17,24		16,18	11,12	
2	9,11	13			11,14	11,12
	16,17	15,16.2	30		X,Y	11,12
	20,22				9,9.3	8
	14,17					
X8AW99	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	

TABLE 1

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

## Item 2 - STR Results

XC8DL3	PowerPlex® Fusion 6C						
		14,16.3	17,24	11,14	16,18	11,12	
	2	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
		14,17	11	17	19		
XCNGA3	Identifiler® Direct						
			17,24		16,18	11,12	
	2	9,11	13			11,14	11,12
		16,17	15,16.2	30		X,Y	11,12
		20,22				9,9.3	8
		14,17					
XDYG9H	PowerPlex® Fusion 5C						
		14,16.3	17,24	11,14	16,18	11,12	
	2	9,11	13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22	12,14	10,14		9,9.3	8
		14,17	11				
XG38J4	GlobalFiler™ (STRmix)						
		14,16.3	17,24	11,14	16,18	11,12	
	2	9,11	13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22			29.2	9,9.3	8
		14,17	11			2	
XGXR4H	GlobalFiler™						
		14,16.3	17,24	11,14	16,18	11,12	
	2	9,11	13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22			29.2	9,9.3	8
		14,17	11			2	
XHCCU8	Investigator® 24plex GO!						
		14,16.3	17,24	11,14	16,18	11,12	
	2	9,11	13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22			29.2	9,9.3	8
		14,17	11				
XNHTKV	PowerPlex® Fusion						
		14,16.3	17,24	11,14	16,18	11,12	
	2	9,11	13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22	12,14	10,14		9,9.3	8
		14,17	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 2 - STR Results

XPRVAZ	Investigator® 24plex					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11				
XRWJUW	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
XU7FEZ	Investigator® 24plex					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11				
YCZL8R	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
YRVV3K	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
YRXMZR	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	11				
ZARTPX	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2	9,9.3	8
	14,17	11	17	19		

TABLE 1

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

## Item 2 - STR Results

ZAUM94	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	11				
ZEH8BY	PowerPlex® Fusion 5C					
	14,16.3	17,24	11,14	16,18	11,12	Not Tested
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	Not Tested	9,9.3	8,8
	14,17	11	Not Tested	Not Tested	Not Tested	
ZKAHKW	GlobalFiler™ (TrueAllele)					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
ZWHZEL	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
ZYA44L	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
2	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		

TABLE 1

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

## Item 3 - STR Results

2JRNH2	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
2TUB6R	GlobalFiler™ (STRmix)					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
2VNYNN	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	
38ZG4X	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
3BW84H	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
3DZ6CP	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
3EY27T	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

3NYTCY	GlobalFiler™ (STRmix)					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
4EQNTG	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
4GD3HQ	PowerPlex® Fusion					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23	9,13	12,13		7,9.3	8,11
	17	10				
4NEG6D	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
4X46XU	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
4YWYXK	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
66H4ER	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

66J9KM	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
69HFAR	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
69HJGM	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
6JJRHE	GlobalFiler™ (STRmix)					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
6K9DTG	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
6YP97R	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
7A93XE	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

7HHCMT	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
7KLAUF	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
7KM3RM	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
7NUB3T	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
7QE6YT	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	
7RQ4RG	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
7RRYFT	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	



TABLE 1

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

## Item 3 - STR Results

7VRGN3	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
8CTDAP	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
8DQFJN	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
8HF27G	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
8KJYFN	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	
96QUX2	Identifiler® Plus					
		20,25		14,17	12,13	
3	7,11	13,13			9,9	10,12
	13,14	13,16	31.2,31.2		X,Y	10,11
	20,23				7,9.3	8,11
	17,17					
97JFFC	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	

TABLE 1

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

## Item 3 - STR Results

9DG8LK	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
9LAHWF	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
9NXWKP	Identifiler® Plus					
		20,25		14,17	12,13	
3	7,11	13			9	10,12
	13,14	13,16	31.2		X,Y	10,11
	20,23				7,9.3	8,11
	17					
9PWWNV	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
9QAJ6P	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
9V3NTM	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	
9ZEG6L	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	

TABLE 1

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

## Item 3 - STR Results

A6LKEK	PowerPlex® Fusion 6C (STRmix)					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
A86L98	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17	10	19	20		
A9Z4B9	GlobalFiler™ (STRmix)					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
ADY9CT	PowerPlex® Fusion					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13		7,9.3	8,11
	17,17	10				
AF3DJL	Investigator® 24plex					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10				
AGXWKM	Investigator® 24plex					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10				
AJ2MUN	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	

TABLE 1

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

## Item 3 - STR Results

APBNBL	PowerPlex® Fusion					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23	9,13	12,13		7,9.3	8,11
	17	10				
ATNQTB	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
AZB8WL	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
B6LNKG	PowerPlex® Fusion					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23	9,13	12,13		7,9.3	8,11
	17	10				
B6Y9DQ	GlobalFiler™ (STRmix v2.7)					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
B6ZBXP	PowerPlex® 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
BB6A8T	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

BVBMFY	PowerPlex® Fusion					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23	9,13	12,13		7,9.3	8,11
	17	10				
BWBHTK	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
BYBTHR	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
BYUJM7	PowerPlex® Fusion 6C (STRmix 2.6.3)					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17	10	19	20		
C3NZD6	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
C4JHE7	GlobalFiler™ (STRmix)					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
CYRCXJ	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	

TABLE 1

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

## Item 3 - STR Results

D8JYDL	GlobalFiler™ (STRmix)					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
DHVD89	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
DK4N4C	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	
EHT7HK	Identifiler® Plus					
		20,25		14,17	12,13	
3	7,11	13			9	10,12
	13,14	13,16	31.2		X,Y	10,11
	20,23				7,9.3	8,11
	17					
EM9GT4	GlobalFiler™ (STRmix)					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
EPD3PG	Investigator® 24plex					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	Not Tested	Not Tested	16,17	7,9.3	8,11
	17,17	10				
EQQN4P	PowerPlex® Fusion					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13		7,9.3	8,11
	17,17	10				

TABLE 1

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

## Item 3 - STR Results

EU74PA	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13	14	18,19	9
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
EVH3JJ	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13	14	18,19	9
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
EWDLLK	GlobalFiler™					
	15,15.3	{20,25}	11.3,14	14,17	12,13	
	3	7,11	13,13	14,14	18,19	9,9
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	{7,9.3}	8,11
	17,17	10			2	
EWUHDK	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13,13	14,14	18,19	9,9
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	
F3X4G8	GlobalFiler™ IQC					
	15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13,13	14,14	18,19	9,9
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	
FB9639	PowerPlex® Fusion 6C, GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13	14	18,19	9
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17	10	19	20	2	
FCJ62N	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13,13	14,14	18,19	9,9
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

FFHGWN	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
FQLUXN	PowerPlex® Fusion					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13		7,9.3	8,11
	17,17	10				
G7B4CD	PowerPlex® Fusion					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23	9,13	12,13		7,9.3	8,11
	17	10				
G8BY6H	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
GHP2H3	PowerPlex® Fusion 5C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23	9,13	12,13		7,9.3	8,11
	17	10				
GJZ8F4	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
GQXUBA	PowerPlex® Fusion					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23	9,13	12,13		7,9.3	8,11
	17	10				



TABLE 1

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

## Item 3 - STR Results

GRRJT6	PowerPlex® Fusion 5C						
		15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13	14	18,19	9	10,12
		13,14	13,16	31.2	15,17	X,Y	10,11
		20,23	9,13	12,13		7,9.3	8,11
	17	10					
GUGRYZ	GlobalFiler™ (STRmix)						
		15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13	14	18,19	9	10,12
		13,14	13,16	31.2	15,17	X,Y	10,11
		20,23			16,17	7,9.3	8,11
	17	10			2		
GWRMRJ	PowerPlex® 6C						
		15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13,13	14,14	18,19	9,9	10,12
		13,14	13,16	31.2,31.2	15,17	X,Y	10,11
		20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20			
GXLBAE	PowerPlex® Fusion 6C						
		15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13,13	14,14	18,19	9,9	10,12
		13,14	13,16	31.2,31.2	15,17	X,Y	10,11
		20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20			
H42DQF	GlobalFiler™						
		15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13,13	14,14	18,19	9,9	10,12
		13,14	13,16	31.2,31.2	15,17	X,Y	10,11
		20,23			16,17	7,9.3	8,11
	17,17	10			2		
H4LAWN	GlobalFiler™						
		15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13,13	14,14	18,19	9,9	10,12
		13,14	13,16	31.2,31.2	15,17	X,Y	10,11
		20,23			16,17	7,9.3	8,11
	17,17	10			2		
HBKL7Z	PowerPlex® Fusion 6C						
		15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13,13	14,14	18,19	9,9	10,12
		13,14	13,16	31.2,31.2	15,17	X,Y	10,11
		20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20			

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

HFFBQD	PowerPlex® Fusion					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23	9,13	12,13		7,9.3	8,11
	17	10				
HXCZM8	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	
JXANJB	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
K8C9JH	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
K9KKWD	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
KECM6K	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
KUM9NA	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	

TABLE 1

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

## Item 3 - STR Results

KWTQQC	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
KWVGYP	GlobalFiler™ (STRmix)					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
KY249D	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
L66AJA	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	
LB8JP3	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
LH89HM	GlobalFiler™ RapidDNA					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
LNY6XJ	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

LQ6LGB	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
LTPF8G	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
LYYFPE	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
M7VXEB	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
MBQFZG	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
MGCKNB	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	
MHRUM4	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	

TABLE 1

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

## Item 3 - STR Results

MW4GQ7	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
NJD32X	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	
PCEV4A	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
PEYP2A	Investigator® 24plex (STRmix)					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10				
PK4GA8	PowerPlex® ESX 16 FAST					
	15,15.3	20,25	11.3,14	14,17		
3		13	14	18,19		10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	
	20,23				7,9.3	
	17					
Q4UYT8	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
QA2KPG	GlobalFiler™ (STRmix)					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	

TABLE 1

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

## Item 3 - STR Results

QA2Z6H	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	
QBZX9	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	
QVJWAR	PowerPlex® Fusion 5C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23	9,13	12,13		7,9.3	8,11
	17	10				
QWR3T8	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17	10	19	20		
QWX28Q	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
QZELU7	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
R4PY8X	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	

TABLE 1

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

## Item 3 - STR Results

R8UK4B	PowerPlex® Fusion					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13		7,9.3	8,11
	17,17	10				
REB3J4	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	
RNBZYQ	GlobalFiler™ (STRmix)					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
RNCTWY	PowerPlex® Fusion					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23	9,13	12,13		7,9.3	8,11
	17	10				
RNYYGX	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	
RPBNQ3	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
RX4YXC	PowerPlex® Fusion					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13		7,9.3	8,11
	17,17	10				

TABLE 1

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

## Item 3 - STR Results

T8BX8E	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	
TFG3XA	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
TGVC34	Investigator® 24plex					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10				
TLNE9N	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
TXJHHA	PowerPlex® Fusion					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13		7,9.3	8,11
	17,17	10				
TXY238	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
U3C4P3	PowerPlex® 21 (STRmix)					
	15,15.3	20,25		14,17	12,13	9,13
3	7,11	13,13		18,19	9,9	10,12
	13,14	13,16	31.2,31.2		X,Y	10,11
	20,23	9,13	12,13		7,9.3	8,11
	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

U6D6PZ	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
UXDWYY	GlobalFiler™ (STRmix)					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
UYCTT3	Identifiler® Plus					
		20,25		14,17	12,13	
3	7,11	13,13			9,9	10,12
	13,14	13,16	31.2,31.2		X,Y	10,11
	20,23				7,9.3	8,11
	17,17					
VHXLXC	NGM SElect					
	15,15.3	20,25	11.3,14	14,17		
3		13,13	14,14	18,19		10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	
	20,23			16,17	7,9.3	
	17,17					
VLJTE7	GlobalFiler™ (STRmix)					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
VTZA49	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
W7K9A2	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	

TABLE 1

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

## Item 3 - STR Results

WHRQRC	PowerPlex® ES17					
	15,15.3	20,25	11.3,14	14,17		
3		13	14	18,19		10,12
	13,14	13,16	31.2	15,17	X,Y	
	20,23			16,17	7,9.3	
	17					
WR3HAZ	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
WWE77P	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
X3DFN3	Identifiler® Plus					
		20,25		14,17	12,13	
3	7,11	13			9	10,12
	13,14	13,16	31.2		X,Y	10,11
	20,23				7,9.3	8,11
	17					
X8AW99	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	
XC8DL3	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		
XCNGA3	Identifiler® Plus					
		20,25		14,17	12,13	
3	7,11	13			9	10,12
	13,14	13,16	31.2		X,Y	10,11
	20,23				7,9.3	8,11
	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

XG38J4	GlobalFiler™ (STRmix)						
		15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13	14	18,19	9	10,12
		13,14	13,16	31.2	15,17	X,Y	10,11
		20,23			16,17	7,9.3	8,11
	17	10			2		
XGXR4H	GlobalFiler™						
		15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13	14	18,19	9	10,12
		13,14	13,16	31.2	15,17	X,Y	10,11
		20,23			16,17	7,9.3	8,11
	17	10			2		
XNHTKV	PowerPlex® Fusion						
		15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13	14	18,19	9	10,12
		13,14	13,16	31.2	15,17	X,Y	10,11
		20,23	9,13	12,13		7,9.3	8,11
	17	10					
XPRVAZ	PowerPlex® Fusion 5C						
		15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13,13	14,14	18,19	9,9	10,12
		13,14	13,16	31.2,31.2	15,17	X,Y	10,11
		20,23	9,13	12,13		7,9.3	8,11
	17,17	10					
XRWJUW	PowerPlex® Fusion 6C						
		15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13,13	14,14	18,19	9,9	10,12
		13,14	13,16	31.2,31.2	15,17	X,Y	10,11
		20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20			
XU7FEZ	PowerPlex® Fusion 5C						
		15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13,13	14,14	18,19	9,9	10,12
		13,14	13,16	31.2,31.2	15,17	X,Y	10,11
		20,23	9,13	12,13		7,9.3	8,11
	17,17	10					
YCZL8R	GlobalFiler™						
		15,15.3	20,25	11.3,14	14,17	12,13	
	3	7,11	13,13	14,14	18,19	9,9	10,12
		13,14	13,16	31.2,31.2	15,17	X,Y	10,11
		20,23			16,17	7,9.3	8,11
	17,17	10			2		

TABLE 1

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

## Item 3 - STR Results

YRVV3K	GlobalFiler™ (STRmix)					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
YRXMZR	PowerPlex® Fusion					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23	9,13	12,13		7,9.3	8,11
	17	10				
ZARTPX	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17	10	19	20		
ZAUM94	PowerPlex® Fusion					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13		7,9.3	8,11
	17,17	10				
ZEH8BY	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	Not Tested
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	Not Tested	Not Tested	16,17	7,9.3	8,11
	17,17	10	Not Tested	Not Tested	2	
ZKAHKW	GlobalFiler™ (TrueAllele)					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	
ZWHZEL	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13	14	18,19	9	10,12
	13,14	13,16	31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17	10			2	

TABLE 1

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

Item 3 - STR Results

ZYA44L	PowerPlex® Fusion 6C					
	15,15.3	20,25	11.3,14	14,17	12,13	
3	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	9,13	12,13	16,17	7,9.3	8,11
	17,17	10	19	20		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

3PGKN4	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3e	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	
7HYN3D	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	--
3e	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23	--	--	16,17	7,9.3	8,11
	17,17	10	--	--	2	
MUF32W	GlobalFiler™					
	15,15.3	20,25	11.3,14	14,17	12,13	
3e	7,11	13,13	14,14	18,19	9,9	10,12
	13,14	13,16	31.2,31.2	15,17	X,Y	10,11
	20,23			16,17	7,9.3	8,11
	17,17	10			2	

TABLE 1

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

Item 3sp - STR Results

3PGKN4 GlobalFiler™

3sp


7HYN3D GlobalFiler™

3sp


MUF32W GlobalFiler™

3sp

[14],15,15.3,[16.3]	20,25	11.3,14	14,16,17	[11],12,13	
7,11	13	13,14	18,19	9,[11]	10,[11],12
13,14,[17]	13,15,16	[30],31.2	15,16,17	X,Y	10,11
20,23			16,17	7,9.3	8,11
17	10,11			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

7VRGN3	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
LH89HM	PowerPlex® ESX17					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18		
4		10,13,14	13,14,16	17,18,21		9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	
	20,21,22			19,24.2,29.2	6,7,9,9.3	
	14,17					
VHXLXC	NGM SElect					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18		
4		10,13,14	13,14,16	17,18,21		9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	
	20,21,22			19,24.2,29.2	6,7,9,9.3	
	14,17					
WHRQRC	PowerPlex® ESI17					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18		
4		10,13,14	13,14,16	17,18,21		9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	
	20,21,22			19,24.2,29.2	6,7,9,9.3	
	14,17					
WWE77P	PowerPlex® Fusion 6C (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		



TABLE 1

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

## Item 4e - STR Results

2JRNH2	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
2TUB6R	GlobalFiler™ (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
2VNYNN	GlobalFiler™					
	(14),16,(16.3),18.3	(17),21,24,26	11,12,(14)	15,(16),17,(18)	11,12	
4e	(9),10,10,(11)	10,13,14	(13),14,16	17,(18),21	(11),13,13,(14)	9,(11,12),14
	13,16,(17)	13,15,(16.2)	30,31,32.2	15,15,(16)	X,X,(Y)	10,11,(12)
	20,21,(22)			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
38ZG4X	PowerPlex® Fusion 6C					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]	9,[12],[14]	5,10,[14]	19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	11	17	19		
3BW84H	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
3DZ6CP	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
3EY27T	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		

TABLE 1

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

## Item 4e - STR Results

3NYTCY	GlobalFiler™ (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
3PGKN4	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,13,14	13,14,16	17,18,21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	30,31,32.2	15,16	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,29.2	6,7,[9],[9.3]	8,11
	14,17	[11]			[2]	
4EQNTG	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
4GD3HQ	PowerPlex® Fusion					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14		6,7,9,9.3	8,11
	14,17	11				
4NEG6D	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
4X46XU	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
4YWYXK	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10	10,[13],14	[13],14,16	17,[18],21	13	9,[11],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11
	20,21			19,24.2,[29.2]	6,7,[9,9.3]	8,11
	14,17	[11]			[2]	

TABLE 1

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

## Item 4e - STR Results

66H4ER	PowerPlex® Fusion 6C (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
66J9KM	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
69HFAR	PowerPlex® Fusion 6C (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
69HJGM	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
6JJRHE	GlobalFiler™ (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
6K9DTG	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
6YP97R	PowerPlex® Fusion 6C					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]	9,[12],[14]	5,10,[14]	19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	11	17	19		

TABLE 1

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

## Item 4e - STR Results

7A93XE	PowerPlex® Fusion 6C (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9.3	8,11
	14,17	11	17	19		
7HHCMT	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10	10,13,14	13,14,16	17,18,21	13	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
7HYN3D	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	--
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	--	--	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	--	--	2	
7KLAUF	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
7KM3RM	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
7NUB3T	PowerPlex® Fusion 6C					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,15	X,X,[Y]	10,11,[12]
	20,21,[22]	9,9,[12],[14]	5,10,[14]	19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	[11]	[17]	[19]		
7QE6YT	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,[21],[22]			19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	11			2	

TABLE 1

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

## Item 4e - STR Results

7RQ4RG	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12	15,[16],17,[18]	11,12	
4e	[9],10	10,[13],14	[13],14,16	17,21	13	9,14
	13,16,[17]	13,15	30,31,32.2	15,[16]	X,[Y]	10,11
	20,21			19,24.2	6,7,[9,9.3]	8,11
	14,17	[11]			[2]	
7RRYFT	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	11			2	
8CTDAP	PowerPlex® Fusion 6C					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]	9,[12],[14]	5,10	19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	11	17	19		
8DQFJN	PowerPlex® Fusion 6C (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
8HF27G	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	[11]			[2]	
8KJYFN	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	6,7,[9],[9.3]	8,[11]
	14,17	11			2	
96QUX2	Identifiler® Plus					
		17,21,24,26		15,16,17,18	11,12	
4e	9,10,11	10,13,14			11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2		X,Y	10,11,12
	20,21,22				6,7,9,9.3	8,11
	14,17					

TABLE 1

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

## Item 4e - STR Results

97JFFC	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
9DG8LK	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
9LAHWF	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	[11]			[2]	
9NXWKP	Identifiler® Plus					
		17,21,24,26		15,16,17,18	11,12	
4e	9,10,11	10,13,14			11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2		X,Y	10,11,12
	20,21,22				6,7,9,9.3	8,11
	14,17					
9PWWNV	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
9QAJ6P	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
9V3NTM	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	[13],15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	[6],7,[9],[9.3]	8,[11]
	14,17	11			2	

TABLE 1

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

## Item 4e - STR Results

9ZEG6L	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
A6LKEK	PowerPlex® Fusion 6C (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
A86L98	PowerPlex® Fusion 6C (STRMix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
A9Z4B9	GlobalFiler™ (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
ADY9CT	PowerPlex® Fusion					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,10,[11]	10,13,14	13,14,16	17,[18],21	[11],13,13,[14]	9,[11,12],14
	13,16,[17]	13,15,[16.2]	30,31,32.2	15,15,[16]	X,X,[Y]	10,11,[12]
	20,21,[22]	9,9,[12,14]	5,10,[14]		6,7,[9,9.3]	8,11
	14,17	11				
AF3DJL	Investigator® 24plex					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	11				
AGXWKM	Investigator® 24plex					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,15	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	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 4e - STR Results

AJ2MUN	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	6,7,9,[9.3]	8,11
	14,17	11			2	
APBNBL	PowerPlex® Fusion					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14		6,7,9,9.3	8,11
	14,17	11				
ATNQTB	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
AZB8WL	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
B6LNKG	PowerPlex® Fusion					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14		6,7,9,9.3	8,11
	14,17	11				
B6Y9DQ	GlobalFiler™ (STRmix v2.7)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	10,11	10,13,14	13,14,16	17,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
B6ZBXP	PowerPlex® 6C					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,15	X,[Y]	10,11,[12]
	20,21,[22]	9,[12],[14]	5,10,[14]	19,24.2,[29.2]	6,7,[9],[9.3]	8,[11]
	14,17	11	17	19		



TABLE 1

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

## Item 4e - STR Results

BB6A8T	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
BVBMFY	PowerPlex® Fusion					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14		6,7,9,9.3	8,11
	14,17	11				
BWBHTK	PowerPlex® Fusion 6C (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
BYBTHR	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
BYUJM7	PowerPlex® Fusion 6C (STRmix 2.6.3)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
C3NZD6	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
C4JHE7	GlobalFiler™ (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	

TABLE 1

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

## Item 4e - STR Results

CYRCXJ	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
	4e [9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	6,7,[9],[9.3]	8,[11]
	14,17	11		2		
D8JYDL	GlobalFiler™ (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
	4e 9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11		2		
DHVD89	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
	4e 9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
DK4N4C	GlobalFiler™					
	[14],16,[16.3],18.3	17,21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
	4e [9],10,10,[11]	10,13,14	[13],14,16	17,[18],21	[11],13,13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	30,31,32.2	15,15,[16]	X,X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	6,7,9,9.3	8,11
	14,17	11		2		
EHT7HK	Identifiler® Plus					
		17,21,24,26		15,16,17,18	11,12	
	4e 9,10,11	10,13,14			11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2		X,Y	10,11,12
	20,21,22				6,7,9,9.3	8,11
	14,17					
EM9GT4	GlobalFiler™ (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
	4e 9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11		2		
EPD3PG	Investigator® 24plex					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
	4e 10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]	Not Tested	Not Tested	19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	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 4e - STR Results

EQQN4P	PowerPlex® Fusion					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,30,[31,32.2]	15,16	X,X,[Y]	10,11,12
	20,21,22	9,12,14	5,10,14		6,7,9,9.3	8,8,[11]
	14,17	11				
EU74PA	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,14	15,16,17,18	11,12	
4e	[9],10,[11]	10,13,14	13,14,16	17,[18],21	[11],13,[14]	9,[11,12],14
	13,16,[17]	13,15,16.2	30,31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,22			19,24.2,29.2	6,7,[9,9.3]	8,11
	14,17	[11]			[2]	
EVH3JJ	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
EWDLLK	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	11			2	
EWUHDK	GlobalFiler™					
	16,18.3	21,26	11,12	15,17	11,12	
4e	10,10	10,14	14,16	17,21	13,13	9,14
	13,16	13,15	31,32.2	15,15	X,X	10,11
	20,21			19,24.2	6,7	8,11
	14,17					
F3X4G8	GlobalFiler™ IQC (LRmixstudio-2.1.3)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,31.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
FB9639	PowerPlex® Fusion 6C, GlobalFiler™					
	(14),16,(16.3),18.3	(17),21,(24),26	11,12,(14)	15,(16),17,(18)	11,12	
4e	(9),10,(11)	10,(13),14	(13),14,16	17,(18),21	(11),13,(14)	9,(11),(12),14
	13,16,(17)	13,15,(16.2)	(30),31,32.2	15,(16)	X,X,(X,Y)	10,11,(12)
	20,21,(22)	9,(12),(14)	5,10,(14)	19,24.2,(29.2)	6,7,(9),(9.3)	8,11
	14,17	11	17	19	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

FCJ62N	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
FFHGWN	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
FQLUXN	PowerPlex® Fusion					
	[14],16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	[9],10,10,[11]	10,13,14	13,14,16	17,18,21	[11],13,13	9,11,12,14
	13,16,17	13,15,[16.2]	30,31,32.2	15,15	X,Y	10,11,12
	20,21,[22]	9,9	5,10		6,7,9,9.3	8,8,[11]
	14,17	NR				
G7B4CD	PowerPlex® Fusion					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14		6,7,9,9.3	8,11
	14,17	11				
G8BY6H	PowerPlex® Fusion 6C (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
GHP2H3	PowerPlex® Fusion 5C					
	(14,)16,(16.3,)18.3	(17,)21,(24,)26	11,12,(14)	15,(16,)17,(18)	11,12	
4e	(9,)10,(11)	10,(13,)14	(13,)14,16	17,(18,)21	(11,)13,(14)	9,11,12,14
	13,16,(17)	13,15,(16.2)	30,31,32.2	15,(16)	X,(Y)	10,11,(12)
	20,21,(22)	9,(12,14)	5,10,(14)		6,7,(9,9.3)	8,11
	14,17	11				
GJZ8F4	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		

TABLE 1

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

## Item 4e - STR Results

GQXUBA	PowerPlex® Fusion					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14		6,7,9,9.3	8,11
	14,17	11				
GRRJT6	PowerPlex® Fusion 5C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14		6,7,9,9.3	8,11
	14,17	11				
GUGRYZ	GlobalFiler™ (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
GWRMRJ	PowerPlex® 6C					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]	9,[12],[14]	5,10,[14]	19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	11	17	19		
GXLBAE	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
H42DQF	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	11			2	
H4LAWN	GlobalFiler™					
	16,16.3,18.3	21,26	11,12	15,17	11,12	
4e	9,10,11	10,14	13,14,16	17,21	13	9,14
	13,16	13,15	30,31,32.2	15	XX	10,11
	20,21			19,24.2,29.2	6,7	8
	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 4e - STR Results

HBKL7Z	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
HFFBQD	PowerPlex® Fusion					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14		6,7,9,9.3	8,11
	14,17	11				
HXCZM8	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,10,[11]	10,13,14	[13],14,16	17,[18],21	[11],13,13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	30,31,32.2	15,15,[16]	X,X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,29.2	6,7,[9.3]	8,11
	14,17	11			2	
JXANJB	PowerPlex® Fusion 6C					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]	9,[12],[14]	5,10,[14]	19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	11	17	19		
K8C9JH	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
K9KKWD	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
KECM6K	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		

TABLE 1

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

## Item 4e - STR Results

KUM9NA	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
KWTQQC	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
KWVG YF	GlobalFiler™ (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
KY249D	PowerPlex® Fusion 6C					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]	9,[12],[14]	5,10,[14]	19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	11	17	19		
L66AJA	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],[26]	11,12,[14]	15,[16],17,[18]	11,12	
4e	10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,15	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	11			2	
LB8JP3	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
LN Y6XJ	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		

TABLE 1

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

## Item 4e - STR Results

LQ6LBG	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
LTPF8G	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
LYYFPE	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
M7VXEB	PowerPlex® Fusion 6C (STRmix)					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]	9,[12],[14]	5,10,[14]	19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	11	17	19		
MBQFZG	GlobalFiler™ (STRMIX)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
MGCKNB	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	11			2	
MHRUM4	GlobalFiler™ (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	



TABLE 1

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

## Item 4e - STR Results

MUF32W	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
MW4GQ7	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
NJD32X	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,10,[11]	10,13,14	[13],14,16	17,[18],21	[11],13,13,[14]	9,[11,12],14
	13,16,[17]	13,15,[16.2]	30,31,32.2	15,15,[16]	X,X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,29.2	6,7,[9,9.3]	8,11
	14,17	11			2	
PCEV4A	PowerPlex® Fusion 6C					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,15,[16]	X,X,[Y]	10,11,[12]
	20,21,[22]	9,9,[12],[14]	5,10,[14]	19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	[11]	[17]	[19]		
PEYP2A	Investigator® 24plex (STRmix)					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	11				
PK4GA8	PowerPlex® ESX 16 FAST					
	[14],16,[16.3],18.3	[17],21,26	11,12,[14]	15,17,[18]		
4e		10,[13],14	[13],14,16	17,[18],21		9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15	X	
	20,21,[22]				6,7,[9],[9.3]	
	14,17					
Q4UYT8	PowerPlex® Fusion 6C					
	(14),16,(16.3),18.3	(17),21,(24),26	11,12,(14)	15,(16),17,(18)	11,12	
4e	(9),10,(11)	10,(13),14	(13),14,16	17,(18),21	(11),13,(14)	9,(11),(12),14
	13,16,(17)	13,15,(16.2)	(30),31,32.2	15,15	X,(Y)	10,11,(12)
	20,21,(22)	9,(12)	5,10,(14)	19,24.2,(29.2)	6,7,(9),(9.3)	8,11
	14,17	11	17	19		

TABLE 1

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

## Item 4e - STR Results

QA2KPG	GlobalFiler™ (STRmix)					
	14,16,[16.3],18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,[12],14
	13,16,17	13,15,[16.2]	30,31,32.2	15	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
QA2Z6H	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
QBZX9	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	[6],7,[9],[9.3]	8,[11]
	14,17	11			2	
QVJWAR	PowerPlex® Fusion 5C					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]	9,[12],[14]	5,10,[14]		6,7,[9],[9.3]	8,11
	14,17	11				
QWR3T8	PowerPlex® Fusion 6C (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
QWX28Q	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],[26]	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,13,14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	30,31,32.2	15,[16]	X,[Y]	[10],11,[12]
	20,21,[22]			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
QZELU7	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		

TABLE 1

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

## Item 4e - STR Results

R4PY8X	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,10,[11]	10,13,14	[13],14,16	17,[18],21	[11],13,13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	30,31,32.2	15,15,[16]	X,X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,29.2	6,7,[9],[9.3]	8,11
	14,17	11			2	
R8UK4B	PowerPlex® Fusion					
	14,16,16.3,18.3	17,21,24,26	11,12,[14]	15,16,17,18	11,12	
4e	[9],10,10,[11]	10,13,14	13,14,16	17,18,21	[11],13,13,[14]	9,11,12,14
	13,16,17	13,15,[16.2]	30,31,32.2	15,15,[16]	X,X	10,11,[12]
	20,21,[22]	9,9,[12,14]	5,10,[14]		6,7,[9,9.3]	8,11
	14,17	11				
REB3J4	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,15	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	6,7,[9],[9.3]	8,[11]
	14,17	11			2	
RNBZYQ	GlobalFiler™ (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
RNCTWY	PowerPlex® Fusion					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14		6,7,9,9.3	8,11
	14,17	11				
RNYYGX	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,10,[11]	10,13,14	[13],14,16	17,[18],21	[11],13,13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	30,31,32.2	15,15,[16]	X,X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,29.2	6,7,[9],[9.3]	8,11
	14,17	11			2	
RPBNQ3	PowerPlex® Fusion 6C (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		

TABLE 1

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

## Item 4e - STR Results

RX4YXC	PowerPlex® Fusion					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,30,[31,32.2]	15,16	X,X,[Y]	10,11,12
	20,21,22	9,12,14	[5],10,14		6,7,9,9.3	8,8,[11]
	14,17	11				
T8BX8E	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
TFG3XA	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
TGVC34	Investigator® 24plex					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,15	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	11				
TLNE9N	GlobalFiler™					
	[14],16,[16.3],18.3	17,21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,13,14	[13],14,16	17,[18],21	[11],13,[14]	9,[11,12],14
	13,16,[17]	13,15,[16.2]	30,31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	6,7,9,9.3	8,11
	14,17	11			2	
TXJHHA	PowerPlex® Fusion					
	14,16,16.3,18.3	[17],21,[24],26	11,12,14	15,16,17,18	11,12	
4e	[9],10,10,[11]	10,13,14	13,14,16	17,[18],21	[11],13,13,[14]	9,11,12,14
	13,16,17	13,15,[16.2]	30,31,32.2	15,15,[16]	X,X,[Y]	10,11,12
	20,21,[22]	9,9,[12],14	5,10,[14]		6,7,9,9.3	8,11
	14,17	11				
TXY238	PowerPlex® Fusion 6C					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,15	X,[Y]	10,11,[12]
	20,21,[22]	9,[12],[14]	5,10,[14]	19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	11	17	19		

TABLE 1

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

## Item 4e - STR Results

U3C4P3	PowerPlex® 21 (STRmix)					
	14,16,16.3,18.3	17,21,24,26		15,16,17,18	11,12	11,12,13
4e	9,10,11	10,13,14		17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2		X,Y	10,11,12
	20,21,22	9,12,14	5,10,14		6,7,9,9.3	8,11
	14,17					
U6D6PZ	PowerPlex® Fusion 6C (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
UXDWYY	GlobalFiler™ (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
UYCTT3	Identifiler® Plus					
		[17],21,[24],26		15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,13,14			[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	30,31,32.2		X,[Y]	10,11,[12]
	20,21,[22]				6,7,[9],[9.3]	8,11
	14,17					
VLJTE7	GlobalFiler™ (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
VTZA49	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
W7K9A2	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	[6],7,[9],[9.3]	8,11
	14,17	11			2	

TABLE 1

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

## Item 4e - STR Results

WR3HAZ	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
X3DFN3	Identifiler® Plus					
		17,21,24,26		15,16,17,18	11,12	
4e	9,10,11	10,13,14			11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2		X,Y	10,11,12
	20,21,22				6,7,9,9.3	8,11
	14,17					
X8AW99	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
XC8DL3	PowerPlex® Fusion 6C					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]	9,[12],[14]	5,10,[14]	19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	11	17	19		
XCNGA3	Identifiler® Plus					
		17,21,26		15,16,17,18	11,12	
4e	10,11	10,13,14			11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2		X,Y	10,11,12
	20,21,22				6,7,9,9.3	8,11
	14,17					
XG38J4	GlobalFiler™ (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
XGXR4H	GlobalFiler™					
	[14],16,[16.3],18.3	17,21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
4e	10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	11			2	

TABLE 1

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

## Item 4e - STR Results

XNHTKV	PowerPlex® Fusion					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
	4e 9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14		6,7,9,9.3	8,11
	14,17	11				
XPRVAZ	PowerPlex® Fusion 5C					
	[14],16,18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
	4e [9],10,[11]	10,13,14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,15	X,Y	10,11,[12]
	20,21,[22]	9,[12],[14]	5,10,[14]		6,7,[9],[9.3]	8,11
	14,17	11				
XRWJUW	PowerPlex® Fusion 6C (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
	4e 9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
XU7FEZ	PowerPlex® Fusion 5C					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
	4e [9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]	9,[12],[14]	5,10,[14]		6,7,[9],[9.3]	8,11
	14,17	11				
YCZL8R	GlobalFiler™					
	16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	
	4e [9],10,10,[11]	10,[13],14	[13],14,16	17,21	[11],13,13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,15,[16]	X,X,[Y]	10,11,[12]
	20,21,[22]			19,24.2,[29.2]	6,7,[9],[9.3]	8,11
	14,17	[11]		[2]		
YRVV3K	GlobalFiler™ (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
	4e 9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11		2		
YRXMZR	PowerPlex® Fusion					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
	4e 9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14		6,7,9,9.3	8,11
	14,17	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 4e - STR Results

ZARTPX	PowerPlex® Fusion 6C (STRmix)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
ZAUM94	PowerPlex® Fusion					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	[9],10,10,[11]	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,15,[16]	X,X,[Y]	10,11,12
	20,21,22	9,9,[12],[14]	5,10,14		6,7,9,9.3	8,11
	14,17	11				
ZEH8BY	GlobalFiler™					
	[14],16,[16.3],18.3	[17],21,[24],26	11,12,[14]	15,[16],17,[18]	11,12	Not Tested
4e	[9],10,[11]	10,[13],14	[13],14,16	17,[18],21	[11],13,[14]	9,[11],[12],14
	13,16,[17]	13,15,[16.2]	[30],31,32.2	15,[16]	X,[Y]	10,11,[12]
	20,21,[22]	Not Tested	Not Tested	19,24.2,[29.2]	6,7,9,[9.3]	8,11
	14,17	11	Not Tested	Not Tested	2	
ZKAHKW	GlobalFiler™ (TrueAllele)					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
ZWHZEL	GlobalFiler™					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22			19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11			2	
ZYA44L	PowerPlex® Fusion 6C					
	14,16,16.3,18.3	17,21,24,26	11,12,14	15,16,17,18	11,12	
4e	9,10,11	10,13,14	13,14,16	17,18,21	11,13,14	9,11,12,14
	13,16,17	13,15,16.2	30,31,32.2	15,16	X,Y	10,11,12
	20,21,22	9,12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		



TABLE 1

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

## Item 4sp - STR Results

2JRNH2	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,12,14	16,18	11,12	
4sp	9,11	13	13,14,16	18,21	11,13,14	11,12
	16,17	13,15,16.2	30	15,16	X,Y	11,12
	20,22	9,12,14	10,14	29.2	6,9,9.3	8
	14,17	11	17	19		
2TUB6R	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
2VNYNN	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,(20),21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
38ZG4X	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,[13],14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
3BW84H	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
3DZ6CP	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
3EY27T	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		

TABLE 1

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

## Item 4sp - STR Results

3NYTCY	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
3PGKN4	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,[13],14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
4EQNTG	GlobalFiler™					
	14,16.3	17,24	11,14	16,[17],18	11,12	
4sp	9,11	13	13,14	18,21	11,[13],14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
4GD3HQ	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	11				
4NEG6D	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
4X46XU	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
4YWYXK	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	

TABLE 1

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

## Item 4sp - STR Results

66H4ER	PowerPlex® Fusion 6C (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
66J9KM	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
69HFAR	PowerPlex® Fusion 6C (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
69HJGM	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
6JJRHE	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
6K9DTG	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
6YP97R	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		

TABLE 1

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

## Item 4sp - STR Results

7A93XE	PowerPlex® Fusion 6C (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
7HHCMT	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
7HYN3D	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	--
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	--	--	29.2,29.2	9,9.3	8,8
	14,17	11	--	--	2	
7KLAUF	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,12,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,13,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14	19,24.2,29.2	9,9.3	8
	14,17	11	17	19		
7KM3RM	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
7NUB3T	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
7QE6YT	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,[13],14	11,12
	16,17	15,16.2	30,[31]	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	

TABLE 1

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

## Item 4sp - STR Results

7RQ4RG	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
7RRYFT	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,[13],14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
8CTDAP	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
8DQFJN	PowerPlex® Fusion 6C (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
8HF27G	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
8KJYFN	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,[13],14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
96QUX2	Identifiler® Plus					
		17,24		16,18	11,12	
4sp	9,11	13,13			11,14	11,12
	16,17	15,16.2	30,30		X,Y	11,12
	20,22				9,9.3	8,8
	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 4sp - STR Results

97JFFC	GlobalFiler™						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13	13,14	18,21	11,[13],14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22			29.2	9,9.3	8
	14,17	11			2		
9DG8LK	GlobalFiler™						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22			29.2	9,9.3	8
	14,17	11			2		
9LAHWF	GlobalFiler™						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22			29.2	9,9.3	8
	14,17	11			2		
9NXWKP	Identifiler® Plus						
			17,24		16,18	11,12	
	4sp	9,11	13			11,14	11,12
		16,17	15,16.2	30		X,Y	11,12
		20,22				9,9.3	8
	14,17						
9PWWNV	PowerPlex® Fusion 6C						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13	13,14	18,21	11,13,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22	12,14	10,14	29.2	9,9.3	8
	14,17	11	17	19			
9QAJ6P	PowerPlex® Fusion 6C						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13	13,14	18,21	11,13,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22	12,14	10,14	29.2	9,9.3	8
	14,17	11	17	19			
9V3NTM	GlobalFiler™						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2		

TABLE 1

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

## Item 4sp - STR Results

9ZEG6L	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
A6LKEK	PowerPlex® Fusion 6C (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
A86L98	PowerPlex® Fusion 6C (STRMix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2	9,9.3	8
	14,17	11	17	19		
A9Z4B9	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
ADY9CT	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	11				
AF3DJL	Investigator® 24plex					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,[13],14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	[9],9.3	8,8
	14,17	11				
AGXWKM	Investigator® 24plex					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	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 4sp - STR Results

AJ2MUN	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
APBNBL	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	11				
ATNQTB	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,13,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2	9,9.3	8
	14,17	11	17	19		
AZB8WL	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
B6LNKG	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	11				
B6Y9DQ	GlobalFiler™ (STRmix v2.7)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
B6ZBXP	PowerPlex® 6C					
	14,16.3	17,24	11,[12],14	16,18	11,12	
4sp	9,11	13,13	13,14	18,[20],21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		



TABLE 1

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

## Item 4sp - STR Results

BB6A8T	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
BVBMFY	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	11				
BWBHTK	PowerPlex® Fusion 6C (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
BYBTHR	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
BYUJM7	PowerPlex® Fusion 6C (STRmix 2.6.3)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2	9,9.3	8
	14,17	11	17	19		
C3NZD6	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,12,14	16,18	11,12	
4sp	9,10,11	10,13	13,14	18,21	11,13,14	9,11,12
	13,16,17	13,15,16.2	30,32.2	15,16	X,Y	11,12
	20,22	12,14	5,10,14	19,24.2,29.2	6,7,9,9.3	8,11
	14,17	11	17	19		
C4JHE7	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	

TABLE 1

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

## Item 4sp - STR Results

CYRCXJ	GlobalFiler™						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2		
D8JYDL	GlobalFiler™ (STRmix)						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22			29.2	9,9.3	8
	14,17	11			2		
DHVD89	PowerPlex® Fusion 6C						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19			
DK4N4C	GlobalFiler™						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13,13	13,14	18,[20],21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2		
EHT7HK	Identifiler® Plus						
			17,24		16,18	11,12	
	4sp	9,11	13			11,14	11,12
		16,17	15,16.2	30		X,Y	11,12
		20,22				9,9.3	8
	14,17						
EM9GT4	GlobalFiler™ (STRmix)						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22			29.2	9,9.3	8
	14,17	11			2		
EPD3PG	Investigator® 24plex						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13,13	13,14	18,21	11,[13],14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22	Not Tested	Not Tested	29.2,29.2	9,9.3	8,8
	14,17	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 4sp - STR Results

EQQN4P	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	11				
EU74PA	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
EVH3JJ	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
EWDLLK	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
EWUHDK	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
F3X4G8	GlobalFiler™ IQC (LRmixstudio-2.1.3)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
FB9639	PowerPlex® Fusion 6C, GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2	9,9.3	8
	14,17	11	17	19	2	

TABLE 1

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

## Item 4sp - STR Results

FCJ62N	PowerPlex® Fusion 6C						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
		14,17	11	17	19		
FFHGWN	PowerPlex® Fusion 6C						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
		14,17	11	17	19		
FQLUXN	PowerPlex® Fusion						
		14,16.3	17,24	11,14	16,[17],18	11,12	
	4sp	9,11	13,13	13,14	18,21	11,[13],14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22	12,14	10,14		9,9.3	8,8
		14,17	11				
G7B4CD	PowerPlex® Fusion						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22	12,14	10,14		9,9.3	8
		14,17	11				
G8BY6H	PowerPlex® Fusion 6C (STRmix)						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
		14,17	11	17	19		
GHP2H3	PowerPlex® Fusion 5C						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13	13,14	18,21	11,(13),14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22	12,14	10,14		9,9.3	8
		14,17	11				
GJZ8F4	PowerPlex® Fusion 6C						
		14,16,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13	13,14	18,21	11,13,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22	12,14	10,14	29.2	9,9.3	8
		14,17	11	17	19		

TABLE 1

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

## Item 4sp - STR Results

GQXUBA	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	11				
GRRJT6	PowerPlex® Fusion 5C					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	11				
GUGRYZ	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
GWRMRJ	PowerPlex® 6C					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,[13],14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
GXLBAE	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
H42DQF	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
H4LAWN	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	

TABLE 1

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

## Item 4sp - STR Results

HBKL7Z	PowerPlex® Fusion 6C						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
		14,17	11	17	19		
HFFBQD	PowerPlex® Fusion						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22	12,14	10,14		9,9.3	8
		14,17	11				
HXCZM8	GlobalFiler™						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22			29.2,29.2	9,9.3	8,8
		14,17	11			2	
JXANJB	PowerPlex® Fusion 6C						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
		14,17	11	17	19		
K8C9JH	PowerPlex® Fusion 6C						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
		14,17	11	17	19		
K9KKWD	GlobalFiler™						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22			29.2	9,9.3	8
		14,17	11			2	
KECM6K	PowerPlex® Fusion 6C						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22	12,14	5,10,14	29.2	9,9.3	8
		14,17	11	17	19		

TABLE 1

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

## Item 4sp - STR Results

KUM9NA	GlobalFiler™					
		14,16.3	17,24	11,14	16,18	11,12
4sp		9,11	13	13,14	18,21	11,14
		16,17	15,16.2	30	15,16	X,Y
		20,22			29.2	9,9.3
		14,17	11			8
						2
KWTQQC	PowerPlex® Fusion 6C					
		14,16.3	17,24	11,14	16,18	11,12
4sp		9,11	13,13	13,14	18,21	11,14
		16,17	15,16.2	30,30	15,16	X,Y
		20,22	12,14	10,14	29.2,29.2	9,9.3
		14,17	11	17	19	8,8
KWVGYP	GlobalFiler™ (STRmix)					
		14,16.3	17,24	11,14	16,18	11,12
4sp		9,11	13	13,14	18,20,21	11,13,14
		16,17	15,16.2	30	15,16	X,Y
		20,22			29.2	9,9.3
		14,17	11			8
						2
KY249D	PowerPlex® Fusion 6C					
		14,16.3	17,24	11,14	16,18	11,12
4sp		9,11	13,13	13,14	18,21	11,14
		16,17	15,16.2	30,30	15,16	X,Y
		20,22	12,14	10,14	29.2,29.2	9,9.3
		14,17	11	17	19	8,8
L66AJA	GlobalFiler™					
		14,16.3	17,24	11,14	16,18	11,12
4sp		9,11	13,13	13,14	18,21	{11,14}
		16,17	15,16.2	30,30	15,16	X,Y
		20,22			29.2,29.2	9,9.3
		14,17	11			8,8
						2
LB8JP3	GlobalFiler™					
		14,16.3	17,24	11,14	16,18	11,12
4sp		9,11	13	13,14	18,21	11,14
		16,17	15,16.2	30	15,16	X,Y
		20,22			29.2	9,9.3
		14,17	11			8
						2
LNY6XJ	PowerPlex® Fusion 6C					
		14,16.3	17,24	11,12,14	16,18	11,12
4sp		9,11	13	13,14	18,21	11,14
		16,17	15,16.2	30	15,16	X,Y
		20,22	12,14	10,14	19,29.2	9,9.3
		14,17	11	17	19	8

TABLE 1

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

## Item 4sp - STR Results

LQ6LBG	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
LTPF8G	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,13,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2	9,9.3	8
	14,17	11	17	19		
LYYFPE	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
M7VXEB	PowerPlex® Fusion 6C (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
MBQFZG	GlobalFiler™ (STRMIX)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
MGCKNB	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,[13],14	11,12
	16,17	15,16.2	30,[31]	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
MHRUM4	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	



TABLE 1

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

## Item 4sp - STR Results

MUF32W	GlobalFiler™					
		14,16.3	17,24	11,14	16,18	11,12
4sp		9,11	13	13,14	18,[20],21	11,[13],14
		16,17	15,16.2	30	15,16	X,Y
		20,22			29.2	9,9.3
		14,17	11			8
						2
MW4GQ7	GlobalFiler™					
		14,16.3	17,24	11,14	16,18	11,12
4sp		9,11	13	13,14	18,21	11,14
		16,17	15,16.2	30	15,16	X,Y
		20,22			29.2	9,9.3
		14,17	11			8
						2
NJD32X	GlobalFiler™					
		14,16.3	17,24	11,14	16,18	11,12
4sp		9,11	13,13	13,14	18,[20],21	11,14
		16,17	15,16.2	30,30	15,16	X,Y
		20,22			29.2,29.2	9,9.3
		14,17	11			8,8
						2
PCEV4A	PowerPlex® Fusion 6C					
		14,16.3	17,24	11,14	16,18	11,12
4sp		9,11	13,13	13,14	18,21	11,14
		16,17	15,16.2	30,30	15,16	X,Y
		20,22	12,14	10,14	29.2,29.2	9,9.3
		14,17	11	17	19	8,8
PEYP2A	Investigator® 24plex (STRmix)					
		14,16.3	17,24	11,14	16,18	11,12
4sp		9,11	13,13	13,14	18,21	11,14
		16,17	15,16.2	30,30	15,16	X,Y
		20,22			29.2,29.2	9,9.3
		14,17	11			8,8
PK4GA8	PowerPlex® ESX 16 FAST					
		14,16.3	17,24	11,14	16,18	
4sp			13	13,14	18,21	11,12
		16,17	15,16.2	30	15,16	X,Y
		20,22				9,9.3
		14,17				
Q4UYT8	PowerPlex® Fusion 6C					
		14,16.3	17,24	11,14	16,18	11,12
4sp		9,11	13,13	13,14	18,21	11,(13),14
		16,17	15,16.2	30,30	15,16	X,Y
		20,22	12,14	10,14	29.2,29.2	9,9.3
		14,17	11	17	19	8,8

TABLE 1

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

## Item 4sp - STR Results

QA2KPG	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,13,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
QA2Z6H	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
QBXZX9	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
QVJWAR	PowerPlex® Fusion 5C					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,[13],14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	11				
QWR3T8	PowerPlex® Fusion 6C (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2	9,9.3	8
	14,17	11	17	19		
QWX28Q	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
QZELU7	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		

TABLE 1

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

## Item 4sp - STR Results

R4PY8X	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
R8UK4B	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	11				
REB3J4	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,[13],14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
RNBZYQ	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
RNCTWY	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8
	14,17	11				
RNYYGX	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,[13],14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	
RPBNQ3	PowerPlex® Fusion 6C (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		

TABLE 1

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

## Item 4sp - STR Results

RX4YXC	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
	4sp 9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	11				
T8BX8E	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
	4sp 9,11	13	13,14	18,21	11,[13],14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11		2		
TFG3XA	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
	4sp 9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
TGVC34	Investigator® 24plex					
	14,16.3	17,24	11,14	16,18	11,12	
	4sp 9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11				
TLNE9N	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
	4sp 9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11		2		
TXJHHA	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
	4sp 9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	11				
TXY238	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
	4sp 9,11	13,13	13,14	18,21	11,[13],14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		

TABLE 1

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

## Item 4sp - STR Results

U3C4P3	PowerPlex® 21 (STRmix)					
	14,16.3	17,24		16,18	11,12	11,13
4sp	9,11	13,13		18,21	11,14	11,12
	16,17	15,16.2	30,30		X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17					
U6D6PZ	PowerPlex® Fusion 6C (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
UXDWYY	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
UYCTT3	Identifiler® Plus					
		17,24		16,18	11,12	
4sp	9,11	13,13			11,14	11,12
	16,17	15,16.2	30,30		X,Y	11,12
	20,22				9,9.3	8,8
	14,17					
VLJTE7	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
VTZA49	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,13,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2	9,9.3	8
	14,17	11	17	19		
W7K9A2	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2	

TABLE 1

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

## Item 4sp - STR Results

WR3HAZ	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
X3DFN3	Identifiler® Plus					
		17,24		16,18	11,12	
4sp	9,11	13			11,14	11,12
	16,17	15,16.2	30		X,Y	11,12
	20,22				9,9.3	8
	14,17					
X8AW99	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,[13],14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
XC8DL3	PowerPlex® Fusion 6C					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,[13],14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19		
XCNGA3	Identifiler® Plus					
		17,24		16,18	11,12	
4sp	9,11	13			11,14	11,12
	16,17	15,16.2	30		X,Y	11,12
	20,22				9,9.3	8
	14,17					
XG38J4	GlobalFiler™ (STRmix)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
XGXR4H	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	

TABLE 1

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

## Item 4sp - STR Results

XNHTKV	PowerPlex® Fusion						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22	12,14	10,14		9,9.3	8
	14,17	11					
XPRVAZ	PowerPlex® Fusion 5C						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22	12,14	10,14		9,9.3	8,8
	14,17	11					
XRWJUW	PowerPlex® Fusion 6C (STRmix)						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22	12,14	10,14	29.2,29.2	9,9.3	8,8
	14,17	11	17	19			
XU7FEZ	PowerPlex® Fusion 5C						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22	12,14	10,14		9,9.3	8,8
	14,17	11					
YCZL8R	GlobalFiler™						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13,13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30,30	15,16	X,Y	11,12
		20,22			29.2,29.2	9,9.3	8,8
	14,17	11			2		
YRVV3K	GlobalFiler™ (STRmix)						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22			29.2	9,9.3	8
	14,17	11			2		
YRXMZR	PowerPlex® Fusion						
		14,16.3	17,24	11,14	16,18	11,12	
	4sp	9,11	13	13,14	18,21	11,14	11,12
		16,17	15,16.2	30	15,16	X,Y	11,12
		20,22	12,14	10,14		9,9.3	8
	14,17	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 4sp - STR Results

ZARTPX	PowerPlex® Fusion 6C (STRmix)					
	14,16.3,18.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,13,14	11,12
	16,17	13,15,16.2	30	15,16	X,Y	11,12
	20,22	12,14	10,14	29.2	9,9.3	8
	14,17	11	17	19		
ZAUM94	PowerPlex® Fusion					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	12,14	10,14		9,9.3	8,8
	14,17	11				
ZEH8BY	GlobalFiler™					
	14,16.3	17,24	11,14	16,18	11,12	Not Tested
4sp	9,11	13,13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30,30	15,16	X,Y	11,12
	20,22	Not Tested	Not Tested	29.2,29.2	9,9.3	8,8
	14,17	11	Not Tested	Not Tested	2	
ZKAHKW	GlobalFiler™ (TrueAllele)					
	14,16.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
ZWHZEL	GlobalFiler™					
	14,16.3	17,24	11,14	16,17,18	11,12	
4sp	9,11	13	13,14	18,21	11,13,14	11,12
	16,17	15,16.2	30	15,16	X,Y	11,12
	20,22			29.2	9,9.3	8
	14,17	11			2	
ZYA44L	PowerPlex® Fusion 6C					
	14,16.3,18.3	17,24	11,14	16,18	11,12	
4sp	9,11	13	13,14	18,21	11,13,14	11,12
	16,17	15,16.2	30,31	15,16	X,Y	11,12
	20,22	12,14	5,10,14	29.2	9,9.3	8
	14,17	11	17	19		



# YSTR Amplification Kit(s) & Results

TABLE 2

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

Item 1 - YSTR Results

X3DFN3	Yfiler™								
1	-	-	-	-	-	-	-	-	-

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 2 - YSTR Results</b>									
2JRNH2	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
2TUB6R	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
2VNYNN	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
3BW84H	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
4EQNTG	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
4GD3HQ	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
4NEG6D	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
4X46XU	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
4YWYXK	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
66H4ER	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
69HFAR	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
6JJRHE	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 2 - YSTR Results</b>									
6K9DTG	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
7A93XE	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
7HHCMT	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
7KLAUF	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
7KM3RM	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
7RQ4RG	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
7VRGN3	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
8DQFJN	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
97JFFC	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
9DG8LK	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
9LAHWF	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
9NXWKP	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 2 - YSTR Results</b>									
9PWWNV	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		13
							23		
9QAJ6P	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		13
							23		
9ZEG6L	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
A6LKEK	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		13
							23		
A9Z4B9	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
ADY9CT	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
APBNBL	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
ATNQTB	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		13
							23		
AZB8WL	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		13
							23		
B6LNKG	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
BB6A8T	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		13
							23		
BVBMFY	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 2 - YSTR Results</b>									
BWBHTK	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		13
							23		
BYBTHR	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		13
							23		
C3NZD6	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		13
							23		
C4JHE7	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
CYRCXJ	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
DHVD89	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		13
							23		
DK4N4C	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
EHT7HK	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		13
							23		
EM9GT4	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
EPD3PG	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
EQQN4P	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
EU74PA	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 2 - YSTR Results</b>									
EVH3JJ	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
EWUHDK	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
FB9639	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
FCJ62N	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
FFHGWN	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
FQLUXN	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
G7B4CD	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
G8BY6H	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
GJZ8F4	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
GQXUBA	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
GUGRYZ	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
GXLBAE	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 2 - YSTR Results</b>									
HBKL7Z	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		13
							23		
HFFBQD	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
HXCZM8	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
K8C9JH	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		13
							23		
K9KKWD	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		13
							23		
KECM6K	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		13
							23		
KUM9NA	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
KWTQQC	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		13
							23		
L66AJA	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
LH89HM	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
LNY6XJ	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		13
							23		
LQ6LBG	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		13
							23		

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 2 - YSTR Results</b>									
LTPF8G	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
MHRUM4	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
MW4GQ7	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
NJD32X	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	[22,2],23	23		13
PEYP2A	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
QWR3T8	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
QWX28Q	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
QZELU7	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
R4PY8X	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	[18],19	30	15	17	11	22
	38	12		17	19	23	23		13
R8UK4B	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
REB3J4	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
RNBZYQ	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13



TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 2 - YSTR Results</b>									
RNCTWY	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
RNYYGX	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
RPBNQ3	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
RX4YXC	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
TFG3XA	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
TLNE9N	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
TXJHHA	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
U6D6PZ	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
UXDWYY	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
VHXLXC	Yfiler™								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
VTZA49	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
WHRQRC	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		22
		12	12	17	19		23	10	13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 2 - YSTR Results</b>									
WR3HAZ	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
WWE77P	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
X3DFN3	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
XCNGA3	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
XGXR4H	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
XNHTKV	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
XRWJUW	Yfiler™								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		
							23		13
YRVV3K	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
YRXMZR	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
ZAUM94	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
ZKAHKW	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
2	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
ZWHZEL	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
2	15	12	12	19		15	17		22
		12	12	17	19		23	10	13

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

ZYA44L	Yfiler™								
		14	11,14	13	29	24	11	14	12
2		15	12	12	19	15	17		
							23		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 3 - YSTR Results</b>									
2JRNH2	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
2TUB6R	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
2VNYNN	Yfiler™ Plus								
	37,40	14	16,16	13	29	25	10	13	12
3	14	11	10	(19),20	28	17	16.2	11	26
	41	12		19	20	21	21		10
3EY27T	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
4EQNTG	PowerPlex® Y 23								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		26
		12	12	19	20		21	9	10
4GD3HQ	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
4NEG6D	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
4X46XU	Yfiler™								
		14	16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
4YWYXK	Yfiler™ Plus								
	37,40	14	16,16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
66H4ER	Yfiler™								
		14	16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
69HFAR	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
6JJRHE	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 3 - YSTR Results</b>									
6K9DTG	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
7A93XE	PowerPlex® Y 23								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		26
		12	12	19	20		21	9	10
7HHCMT	Yfiler™								
		14	16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
7KLAUF	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
7KM3RM	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
7RQ4RG	Yfiler™ Plus								
	37,40	14	16,16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
7VRGN3	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
8DQFJN	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
9DG8LK	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
9LAHWF	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
9NXWKP	Yfiler™								
		14	16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
9PWWNV	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 3 - YSTR Results</b>									
9QAJ6P	Yfiler™								
		14	16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
9ZEG6L	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
A6LKEK	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
A9Z4B9	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
ADY9CT	PowerPlex® Y 23								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		26
		12	12	19	20		21	9	10
APBNBL	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
ATNQTB	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
AZB8WL	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
B6LNKG	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
BB6A8T	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
BVBMFY	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
BWBHTK	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 3 - YSTR Results</b>									
BYBTHR	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
C3NZD6	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
CYRCXJ	PowerPlex® Y 23								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		26
		12	12	19	20		21	9	10
DHVD89	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
DK4N4C	Yfiler™ Plus								
	37,40	14	16,16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
EHT7HK	Yfiler™								
		14	16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
EPD3PG	PowerPlex® Y 23								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		26
		12	12	19	20		21	9	10
EQQN4P	PowerPlex® Y 23								
		14	16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		26
		12	12	19	20		21	9	10
EU74PA	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
EVH3JJ	Yfiler™								
		14	16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
EWUHDK	Yfiler™ Plus								
	37,40	14	16,16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
FB9639	PowerPlex® Y 23								
		14	16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		26
		12	12	19	20		21	9	10

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 3 - YSTR Results</b>									
FCJ62N	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		10
							21		
FFHGWN	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		10
							21		
FQLUXN	PowerPlex® Y 23								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		26
		12	12	19	20		21	9	10
G7B4CD	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
G8BY6H	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		10
							21		
GJZ8F4	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		10
							21		
GQXUBA	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
GUGRYZ	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
GXLBAE	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		10
							21		
HBKL7Z	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		10
							21		
HFFBQD	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
HXCZM8	Yfiler™ Plus								
	37,40	14	16,16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10



TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 3 - YSTR Results</b>									
K8C9JH	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
K9KKWD	Yfiler™								
		14	16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
KECM6K	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
KUM9NA	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
KWTQQC	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
LN6XJ	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
LQ6LBG	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
LTPF8G	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
MHRUM4	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
MW4GQ7	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
NJD32X	Yfiler™ Plus								
	37,40	14	16,16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
PEYP2A	PowerPlex® Y 23								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		26
		12	12	19	20		21	9	10

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 3 - YSTR Results</b>									
QWR3T8	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
QWX28Q	Yfiler™								
		14	16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
QZELU7	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
R4PY8X	Yfiler™ Plus								
	37,40	14	16,16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
R8UK4B	PowerPlex® Y 23								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		26
		12	12	19	20		21	9	10
REB3J4	Yfiler™ Plus								
	37,40	14	16,16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
RNCTWY	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
RNYYGX	Yfiler™ Plus								
	37,40	14	16,16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
RPBNQ3	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
RX4YXC	PowerPlex® Y 23								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		26
		12	12	19	20		21	9	10
TFG3XA	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
TLNE9N	Yfiler™								
		14	16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 3 - YSTR Results</b>									
TXJHHA	PowerPlex® Y 23								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		26
		12	12	19	20		21	9	10
U6D6PZ	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
UXDWYY	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
VHXLXC	Yfiler™								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
VTZA49	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
WHRQRC	PowerPlex® Y 23								
		14	16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		26
		12	12	19	20		21	9	10
WR3HAZ	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
WWE77P	PowerPlex® Y 23								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		26
		12	12	19	20		21	9	10
X3DFN3	Yfiler™								
		14	16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
XCNGA3	Yfiler™								
		14	16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
XGXR4H	Yfiler™								
		14	16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
XNHTKV	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 3 - YSTR Results</b>									
XRWJUW	Yfiler™								
		14	16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10
YRXMZR	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
ZAUM94	PowerPlex® Y 23								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		26
		12	12	19	20		21	9	10
ZKAHKW	Yfiler™ Plus								
	37,40	14	16	13	29	25	10	13	12
3	14	11	10	20	28	17	16.2	11	26
	41	12		19	20	21	21		10
ZYA44L	Yfiler™								
		14	16,16	13	29	25	10	13	12
3	14	11	10	20		17	16.2		
							21		10

TABLE 2

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

Item 4 - YSTR Results

7VRGN3	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
VHXLXC	Yfiler™								
	35,36	14	11,14	13	29	24	11	14	12
4	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
WHRQRC	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
WWE77P	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4	15	12	12	19		15	17		22
		12	12	17	19		23	10	13

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 4e - YSTR Results

2JRNH2	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		13
							23		
2TUB6R	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
3BW84H	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
3EY27T	Yfiler™								
4e									
4GD3HQ	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
4NEG6D	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
4X46XU	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		
							23		13
4YWYXK	Yfiler™ Plus								
		14	11,14	13	29	24		14	12
4e	15	12	12	19		15	17	11	22
				17	19	23	23		13
66H4ER	Yfiler™								
4e									
69HFAR	Yfiler™								
4e									
6JRHE	Yfiler™ Plus								
4e									
6K9DTG	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13

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 4e - YSTR Results

7A93XE	PowerPlex® Y 23								
4e	[Redacted]								
7HHCMT	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		
							23		13
7KLAUF	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		
							23		13
7KM3RM	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
7RQ4RG	Yfiler™ Plus								
4e	[Redacted]								
8DQFJN	Yfiler™								
4e	[Redacted]								
97JFFC	PowerPlex® Y 23								
4e	[Redacted]								
9DG8LK	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
9LAHWF	Yfiler™ Plus								
4e	[Redacted]								
9NXWKP	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		
							23		13
9PWWNV	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		
							23		13
9QAJ6P	Yfiler™								
4e	[Redacted]								

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 4e - YSTR Results

9ZEG6L	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
A6LKEK	Yfiler™								
4e									
A9Z4B9	Yfiler™ Plus								
4e									
ADY9CT	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
APBNBL	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
ATNQTB	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		
							23		13
AZB8WL	Yfiler™								
4e									
B6LNKG	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
BB6A8T	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		
							23		13
BVBMFY	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
BWBHTK	Yfiler™								
4e									
BYBTHR	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		
							23		13



TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4e - YSTR Results</b>									
C3NZD6	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		
							23		13
C4JHE7	Yfiler™ Plus								
4e									
CYRCXJ	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
DHVD89	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		
							23		13
EHT7HK	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		
							23		13
EPD3PG	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
EQQN4P	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
EU74PA	Yfiler™ Plus								
4e									
EVH3JJ	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		
							23		13
EWUHDK	Yfiler™ Plus								
4e									
FB9639	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
FCJ62N	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		
							23		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4e - YSTR Results</b>									
FFHGWN	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		13
							23		
FQLUXN	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4e	NR	12	12	19		15	17		22
		12	12	17	19		23	10	13
G7B4CD	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
G8BY6H	Yfiler™								
4e									
GJZ8F4	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		13
							23		
GQXUBA	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
GUGRYZ	Yfiler™ Plus								
4e									
GXLBAE	Yfiler™								
4e									
HBKL7Z	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		13
							23		
HFFBQD	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
K8C9JH	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		13
							23		
K9KKWD	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		13
							23		

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4e - YSTR Results</b>									
KECM6K	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		13
							23		
KUM9NA	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
KWTQQC	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		13
							23		
LN6XJ	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		13
							23		
LQ6LBG	Yfiler™								
4e									
LTPF8G	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		13
							23		
MHRUM4	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
MW4GQ7	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
PEYP2A	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
QWR3T8	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
QWX28Q	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		13
							23		
QZELU7	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		13
							23		

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 4e - YSTR Results

R8UK4B	PowerPlex® Y 23								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
4e	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
REB3J4	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
RNBZYQ	Yfiler™ Plus								
4e									
RNCTWY	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
RPBNQ3	Yfiler™								
4e									
RX4YXC	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
TFG3XA	Yfiler™								
4e									
TLNE9N	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		
							23		13
TXJHHA	PowerPlex® Y								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
U6D6PZ	Yfiler™								
4e									
UXDWYY	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
VTZA49	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		
							23		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4e - YSTR Results</b>									
WR3HAZ	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		13
							23		
X3DFN3	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		13
							23		
XCNGA3	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		13
							23		
XGXR4H	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		13
							23		
XNHTKV	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
XRWJUW	Yfiler™								
4e									
YRV3K	Yfiler™ Plus								
4e									
YRXMZR	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
ZAUM94	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
ZKAHKW	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4e	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
ZWHZEL	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
ZYA44L	Yfiler™								
		14	11,14	13	29	24	11	14	12
4e	15	12	12	19		15	17		13
							23		

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4sp - YSTR Results</b>									
2JRNH2	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
2TUB6R	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
3BW84H	PowerPlex® Y 23								
4sp									
3EY27T	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
4GD3HQ	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
4NEG6D	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
4X46XU	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
4YWYXK	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
66H4ER	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
69HFAR	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
6JJRHE	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
6K9DTG	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4sp - YSTR Results</b>									
7A93XE	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
7HHCMT	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		
							23		13
7KLAUF	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		
							23		13
7KM3RM	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
7RQ4RG	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
8DQFJN	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		
							23		13
97JFFC	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
9DG8LK	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
9LAHWF	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
9NXWKP	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		
							23		13
9PWWNV	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		
							23		13
9QAJ6P	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		
							23		13

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4sp - YSTR Results</b>									
9ZEG6L	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
A6LKEK	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		
							23		13
A9Z4B9	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
ADY9CT	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
APBNBL	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
ATNQTB	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		
							23		13
AZB8WL	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		
							23		13
B6LNKG	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
BB6A8T	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		
							23		13
BVBMFY	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
BWBHTK	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		
							23		13
BYBTHR	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		
							23		13



TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4sp - YSTR Results</b>									
C3NZD6	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
C4JHE7	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
CYRCXJ	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
DHVD89	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
EHT7HK	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
EPD3PG	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
EQQN4P	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
EU74PA	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
EVH3JJ	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
EWUHDK	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
FB9639	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
FCJ62N	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4sp - YSTR Results</b>									
FFHGWN	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
FQLUXN	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
G7B4CD	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
G8BY6H	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
GJZ8F4	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
GQXUBA	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
GUGRYZ	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
GXLBAE	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
HBKL7Z	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
HFFBQD	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
K8C9JH	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
K9KKWD	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4sp - YSTR Results</b>									
KECM6K	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
KUM9NA	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
KWTQQC	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
LN6XJ	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
LQ6LBG	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
LTPF8G	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
MHRUM4	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
MW4GQ7	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
PEYP2A	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
QWR3T8	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
QWX28Q	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
QZELU7	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4sp - YSTR Results</b>									
R8UK4B	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
REB3J4	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
RNBZYQ	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
RNCTWY	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
RPBNQ3	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		
							23		13
RX4YXC	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
TFG3XA	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		
							23		13
TLNE9N	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		
							23		13
TXJHHA	PowerPlex® Y								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
U6D6PZ	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		
							23		13
UXDWYY	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
VTZA49	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		
							23		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4sp - YSTR Results</b>									
WR3HAZ	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
X3DFN3	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
XCNGA3	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
XGXR4H	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
XNHTKV	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
XRWJUW	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		
YRWV3K	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
YRXMZR	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
ZAUM94	PowerPlex® Y 23								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		22
		12	12	17	19		23	10	13
ZKAHKW	Yfiler™ Plus								
	35,36	14	11,14	13	29	24	11	14	12
4sp	15	12	12	19	30	15	17	11	22
	38	12		17	19	23	23		13
ZWHZEL	PowerPlex® Y 23								
4sp									
ZYA44L	Yfiler™								
		14	11,14	13	29	24	11	14	12
4sp	15	12	12	19		15	17		13
							23		

# Additional DNA Results

## TABLE 3

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

<b>Locus</b>	<b>WebCode</b>	<b>Item 1</b>	<b>Item 2</b>	<b>Item 3</b>	<b>Item 3e</b>	<b>Item 3sp</b>	<b>Item 4</b>	<b>Item 4e</b>	<b>Item 4sp</b>
QS1	7QHPR3		Q						
	7QVJ83	Q	Q						
	842QMZ	Q	Q						
	9U79LW	Q	Q						
	B63VQY	Q	Q						
	B6ZBXP	Q	Q						
	BJYCFW	Q	Q						
	FMJTWQ	Q	Q						
	GZQ2CN	Q	Q						
	HQFYQM	Q	Q						
	JXBH7N	Q	Q						
	LQ6NZK	Q	Q						
	PE2ATJ	Q	Q						
	Q67QRF	Q	Q						
	QZFGGH	Q	Q						
	RHBA3F	Q	Q						
	TAFQ2C	Q	Q						
XHCCU8	Q	Q							
QS2	7QHPR3		S						
	7QVJ83	S	S						
	842QMZ	S	S						
	9U79LW	S	S						
	B63VQY	S	S						
	B6ZBXP	S	S						
	BJYCFW	S	S						
	FMJTWQ	S	S						
	GZQ2CN	S	S						
	HQFYQM	S	S						
	JXBH7N	S	S						
	LQ6NZK	S	S						
	PE2ATJ	S	S						
	Q67QRF	S	S						
QZFGGH	S	S							

TABLE 3

<b>Locus</b>	<b>WebCode</b>	<b>Item 1</b>	<b>Item 2</b>	<b>Item 3</b>	<b>Item 3e</b>	<b>Item 3sp</b>	<b>Item 4</b>	<b>Item 4e</b>	<b>Item 4sp</b>
QS2 cont'd	RHBA3F	S	S						
	TAFQ2C	S	S						
	XHCCU8	S	S						

# 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
2JRNH2	No	Yes	No	Yes	6JJRHE	No	Yes	No	Yes
2TUB6R	No	Yes	No	Yes	6K9DTG	No	Yes	No	Yes
2VNYNN	No	Yes	No	Yes	6YP97R	No	Yes	No	Yes
38ZG4X	No	Yes	No	Yes	7A93XE	No	Yes	No	Yes
3BW84H	No	Yes	No	Yes	7HHCMT	No	Yes	No	Yes
3C4MEU	No Interpretations Reported, DNA Analyzed for Database purposes only.				7HYN3D	No	Yes	No	Yes
3DZ6CP	No	Yes	No	Yes	7KLAUF	No	Yes	No	Yes
3EY27T					7KM3RM	No	Yes	No	Yes
3NYTCY	No	Yes	No	Yes	7NUB3T	No	Yes	No	Yes
3PGKN4	No	Yes	No	Yes	7QE6YT	No	Yes	No	Yes
44TKTT	No Interpretations Reported, DNA Analyzed for Database purposes only.				7QHPR3	No Interpretations Reported, DNA Analyzed for Database purposes only.			
4EQNTG	No	Yes	No	Yes	7QVJ83	No Interpretations Reported, DNA Analyzed for Database purposes only.			
4GD3HQ	No	Yes	No	Yes	7RQ4RG	No	Yes	No	Yes
4NEG6D	No	Yes	No	Yes	7RRYFT	No	Yes	No	Yes
4X46XU	No	Yes	No	Yes	7VRGN3	No	Yes	No	Yes
4YWYXK	No	Yes	No	Yes	842QMZ	No Interpretations Reported, DNA Analyzed for Database purposes only.			
66H4ER	No	Yes	No	Yes	8CTDAP	No	Yes	No	Yes
66J9KM	No	Yes	No	Yes	8DQFJN	No	Yes	No	Yes
69HFAR	No	Yes	No	Yes	8HF27G	No	Yes	No	Yes
69HJGM	No	Yes	No	Yes	8KJYFN	No	Yes	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
96QUX2	No	Yes	No	Yes	AZB8WL	No Interp	No Interp	No Interp	No Interp
97JFFC	No	Yes	No	Yes	B63VQY	No Interpretations Reported, DNA Analyzed for Database purposes only.			
9DG8LK	No	Yes	No	Yes	B6LNKG	No	Yes	No	Yes
9K227W	No Interpretations Reported, DNA Analyzed for Database purposes only.				B6Y9DQ	No	Yes	No	Yes
9LAHWF	No	Yes	No	Yes	B6ZBXP	No	Yes	No	Yes
9NXWKP	No	Yes	No	Yes	BB6A8T	No	Yes	No	Yes
9PWWNV	No	Yes	No	Yes	BJYCFW	No Interpretations Reported, DNA Analyzed for Database purposes only.			
9QAJ6P	No	Yes	No	Yes	BVBMFY	No	Yes	No	Yes
9U79LW	No Interpretations Reported, DNA Analyzed for Database purposes only.				BWBHTK	No	Yes	No	Yes
9V3NTM	No	Yes	No	Yes	BYBTHR	No	Yes	No	Yes
9ZEG6L	No	Yes	No	Yes	BYUJM7	No	Yes	No	Yes
A3GYH8	No Interpretations Reported, DNA Analyzed for Database purposes only.				C3NZD6	No	Yes	No	Yes
A6LKEK	No	Yes	No	Yes	C4JHE7	No	Yes	No	Yes
A86L98	No	Yes	No	Yes	CYRCXJ	No	Yes	No	Yes
A9Z4B9	No	Yes	No	Yes	D8JYDL	No	Yes	No	Yes
ADY9CT	No	Yes	No	Yes	DHVD89	No	Yes	No	Yes
AF3DJL	No	Yes	No	Yes	DK4N4C	No	Yes	No	Yes
AGXWKM	No	Yes	No	Yes	EHT7HK	No	Yes	No	Yes
AJ2MUN	No	Yes	No	Yes	EM9GT4	No	Yes	No	Yes
APBNBL	No	Yes	No	Yes	EPD3PG	No Interpretations Reported, DNA Analyzed for Database purposes only.			
ATNQTB	No	Yes	No	Yes	EQQN4P	No	Yes	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
EU74PA	No	Yes	No	Yes	H4LAWN	No	Yes	No	Yes
EVH3JJ	No	Yes	No	Yes	HBKL7Z	No	Yes	No	Yes
EWDLK	No	Yes	No	Yes	HFFBQD	No	Yes	No	Yes
EWUHDK	No	Yes	No	Yes	HQFYQM	No Interpretations Reported, DNA Analyzed for Database purposes only.			
F3X4G8	No	Yes	No	Yes	HXCZM8	No	Yes	No	Yes
FB9639	No	Yes	No	Yes	JXANJB	No	Yes	No	Yes
FCJ62N	No	Yes	No	Yes	JXBH7N	No Interpretations Reported, DNA Analyzed for Database purposes only.			
FFHGWN	No	Yes	No	Yes	K8C9JH	No	Yes	No	Yes
FMJTWQ	No Interpretations Reported, DNA Analyzed for Database purposes only.				K9KKWD	No	Yes	No	Yes
FQLUXN	No	Yes	No	Yes	KECM6K	No	Yes	No	Yes
G7B4CD	No	Yes	No	Yes	KUM9NA	No	Yes	No	Yes
G8BY6H	No	Yes	No	Yes	KWTQQC	No	Yes	No	Yes
GHP2H3	No	Yes	No	Yes	KWVGYP	No	Yes	No	Yes
GJZ8F4	No	Yes	No	Yes	KY249D	No	Yes	No	Yes
GQXUBA	No	Yes	No	Yes	L66AJA	No	Yes	No	Yes
GRRJT6	No	Yes	No	Yes	LB8JP3	No	Yes	No	Yes
GUGRYZ	No	Yes	No	Yes	LH89HM	No	Yes	No	Yes
GWRMRJ	No	Yes	No	Yes	LN6XJ	No	Yes	No	Yes
GXLBAE					LQ6LBG				
GZQ2CN	No Interpretations Reported, DNA Analyzed for Database purposes only.				LQ6NZK	No Interpretations Reported, DNA Analyzed for Database purposes only.			
H42DQF	No	Yes	No	Yes	LTPF8G	No	Yes	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
LYYFPE	No	Yes	No	Yes	QZELU7	No	Yes	No	Yes
M4NDTV	No Interpretations Reported, DNA Analyzed for Database purposes only.				QZFGGH	No Interpretations Reported, DNA Analyzed for Database purposes only.			
M7VXEB	No	Yes	No	Yes	R4PY8X	No	Yes	No	Yes
MBQFZG	No	Yes	No	Yes	R8UK4B	No	Yes	No	Yes
MGCKNB	No	Yes	No	Yes	REB3J4	No Interpretations Reported, DNA Analyzed for Database purposes only.			
MHRUM4	No	Yes	No	Yes	RHBA3F	No Interpretations Reported, DNA Analyzed for Database purposes only.			
MUF32W	No	Yes	Yes	Yes	RNBZYQ	No	Yes	No	Yes
MW4GQ7	No	Yes	No	Yes	RNCTWY	No	Yes	No	Yes
NJD32X	No	Yes	No	Yes	RNYYGX	No	Yes	No	Yes
PCEV4A	No	Yes	No	Yes	RPBNQ3	No	Yes	No	Yes
PE2ATJ	No Interpretations Reported, DNA Analyzed for Database purposes only.				RX4YXC	No	Yes	No	Yes
PEYP2A	No	Yes	No	Yes	T8BX8E	No	Yes	No	Yes
PK4GA8	No	Yes	No	Yes	TAFQ2C	No Interpretations Reported, DNA Analyzed for Database purposes only.			
Q4UYT8	No	Yes	No	Yes	TFG3XA	No Interp	No Interp	No Interp	No Interp
Q67QRF	No Interpretations Reported, DNA Analyzed for Database purposes only.				TGVC34	No	Yes	No	Yes
QA2KPG	No	No	Yes	Yes	TLNE9N	No	Yes	No	Yes
QA2Z6H	No	Yes	No	Yes	TXJHHA	No	Yes	No	Yes
QBZX9	No	Yes	No	Yes	TXY238	No	Yes	No	Yes
QVJWAR	No	Yes	No	Yes	U3C4P3	No	Yes	No	Yes
QWR3T8	No	Yes	No	Yes	U6D6PZ	No	Yes	No	Yes
QWX28Q	No	Yes	No	Yes	UXDWYY	No	Yes	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
UYCTT3	No	Yes	No	Yes	YRW3K	No	Yes	No	Yes
VHXLXC	No	Yes	No	Yes	YRXMZR	No	Yes	No	Yes
VLJTE7	No	Yes	No	Yes	ZARTPX	No	Yes	No	Yes
VTZA49	No	Yes	No	Yes	ZAUM94	No	Yes	No	Yes
W7K9A2	No	Yes	No	Yes	ZEH8BY	No	Yes	No	Yes
WHRQRC	No	Yes	No	Yes	ZKAHKW	No	Yes	No	Yes
WR3HAZ	No	Yes	No	Yes	ZWHZEL	No	Yes	No	Yes
WWE77P	No	Yes	No	Yes	ZYA44L	No	Yes	No	Yes
X3DFN3	No	Yes	No	Yes					
X8AW99	No	Yes	No	Yes					
XC8DL3	No	Yes	No	Yes					
XCNGA3	No	Yes	No	Yes					
XDYG9H	No Interpretations Reported, DNA Analyzed for Database purposes only.								
XG38J4	No	Yes	No	Yes					
XGXR4H	No	Yes	No	Yes					
XHCCU8	No Interpretations Reported, DNA Analyzed for Database purposes only.								
XNHTKV	No	Yes	No	Yes					
XPRVAZ	No	Yes	No	Yes					
XRWJUW	No	Yes	No	Yes					
XU7FEZ	No	Yes	No	Yes					
YCZL8R	No	Yes	No	Yes					

**DNA Interpretation****Response Summary****Participants reporting DNA results: 195**

*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>0</b>	<b>164</b>	<b>2</b>	<b>165</b>
No	<b>165</b>	<b>1</b>	<b>163</b>	<b>0</b>
Inc	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
No Interpretation	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
No Response	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>

**Participants analyzing DNA for database purposes only: 25**

# Additional Comments

## TABLE 5

WebCode	Additional Comments
2VNYNN	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. Item 3 at locus DYS448 – There is a minor allele 19, which is inconsistent with being a contributor to the overall profile. The peak height ratio of allele 19 to allele 20 is 5.51%, exceeding the Laboratory's stutter threshold for this locus of 5.06%. The minor allele 19 is likely to be an elevated stutter. Item 4 sp at locus D12S391 – There is a minor allele 20, which is inconsistent with being a contributor to the overall profile. The average peak height ratio of allele 20 to allele 21 is 19.12%, exceeding the Laboratory's stutter threshold for this locus of 13.98%. The minor allele 20 is likely to be an elevated stutter.
3EY27T	No comparisons performed [Initials] 4/19/22
3PGKN4	Items 3 and 4 were extracted via differential separation, per laboratory protocol. Insufficient human DNA was detected in the sperm fraction of Q1.3.1, so the report will reflect the non-sperm fraction (epi-fraction) only for Q1.3.1.
4GD3HQ	NR=No Results. STRmix analysis was conducted on this test. Data reported out in this test is from analysis using Genemapper ID-X.
4X46XU	Extraction: Item 1 and Item 2 were extracted using in-situ method. Item 3 was extracted using Promega DNA-IQ Purification Kit on TECAN Freedom Evo 150. Item 4 was extracted using differential extraction method. Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Trio DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using GlobalFiler Express PCR Amplification Kit on Proflex PCR System. Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4. Quality Control: Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results. *NM - non-male allele.
66H4ER	NR = No results
69HFAR	NR = no result [Initials] 04/12/2022
7HHCMT	Extraction: Item 1 and Item 2 were extracted on FTA card (in-situ extraction method). Item 3 was extracted using PrepFiler Express DNA Extraction Kit. Item 4 was extracted using Chelex extraction method (differential extraction method). Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Trio DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using GlobalFiler Express PCR Amplification Kit on Proflex PCR System. Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1 and Item 2 (GlobalFiler Express Kit), Item 3 and Item 4 (GlobalFiler Kit). Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 2, Item 3 and Item 4 (Y-Filer Kit). Quality Control: Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results. NM: Non-male
7HYN3D	Items 3 and 4 were extracted via differential separation, per laboratory protocol. No human DNA was detected in the sperm fraction of item 3, so the report will reflect the non-sperm fraction (epi-fraction) only for item 3.
7NUB3T	ND = not detected
8DQFJN	NR= No result. [Initials] 03/30/2022

TABLE 5

WebCode	Additional Comments
9NXWKP	Extraction: In-situ extraction method was used to extract DNA from Item 1 and Item 2. Chelex extraction method was used to extract DNA from Item 3 and Item 4. 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: Amplification of STR (Short Tandem Repeat) genetic loci for Item 1 and Item 2 were carried out using the AmpFISTR Identifiler Direct Amplification Kit and Item 3 and Item 4 were amplified using the AmpFISTR Identifiler Plus PCR Amplification Kit. Amplification of Y-STR (Y-Short Tandem Repeat) genetic loci for Item 2, Item 3 and Item 4 were carried out using the AmpFISTR Y-filer PCR Amplification kit. Electrophoresis: Capillary electrophoresis for Item 1,2,3 and 4 were carried out using the Applied Biosystems 3500xl Genetic Analyzer with GeneMapper ID-X Software. Quality Control: Reagent blank, positive control and negative control were carried out throughout the analysis and all gave intended results.
9QAJ6P	NR = no result
A6LKEK	Abbreviations - NR: No Results.
ADY9CT	N.R. (= No Results) entered for DYS391 in female profiles (e.g. Item 1).
APBNBL	STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X. NR = no results.
AZB8WL	NR = No Result - [Initials] 03/28/2022. No comparisons performed. [Initials] 04/07/2022.
B6LNKG	NR=no results. All data reported was analyzed with Genemapper ID-X. In addition, Item 4e was analyzed using STRmix.
BVBMYF	NR indicates no results. STRmix analysis was conducted on this test. Data reported out in the test is from analysis using GeneMapper-IDX.
BWBHTK	NR = No Result [Initials] 03/31/2022
DK4N4C	STR results: Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification. STR results: Item 4 (spermic fraction) at locus D12S391 - There is a minor allele 20, which is inconsistent with being a contributor to the overall profile. The average peak height ratio of allele 20 to allele 21 is 19.71%, exceeding the Laboratory's stutter threshold for this locus of 13.98%. The minor allele 20 is likely to be an elevated stutter.
EHT7HK	1. Item 1 and Item 2 were extracted using in-situ method while Item 3 and Item 4 were extracted using Chelex extraction method. 2. Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification Kit on the Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 System. 3. Item 1 and Item 2 were amplified using AmpFLSTR Identifiler Direct PCR Amplification Kit while Item 3 and Item 4 were amplified using AmpFLSTR Identifiler Plus PCR Amplification 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 AmpFLSTR Y-filer PCR Amplification kit on the 9700 GeneAmp PCR System. 4. Electrophoresis was carried out on the Applied Biosystems 3500 Genetic Analyser with GeneMapper ID-X Software for Item 1, Item 2, Item 3 and Item 4. 5. Reagent blank, positive control and negative control were analysed throughout the analysis and all gave the intended results.
EQQN4P	Items 3 and 4 were tested for the presence of human blood using the ABACard HemaTrace test kit. Samples were analyzed on an ABI 3500. NR = No Results.

TABLE 5

WebCode	Additional Comments
EVH3JJ	Extraction: Item 1 and Item 2 were extracted on FTA card (in-situ extraction). Item 3 was extracted using PrepFiler Express DNA Extraction Kit. Item 4 was extracted using chelex extraction method (differential extraction method). Quantification: Item 3 and Item 4 were quantified using Quantifiler Trio DNA Quantification kit on RT-PCR QuantStudio 5 System. Amplification: Item 1 and Item 2 were amplified using GlobalFiler Express STR kit on ProFlex PCR System. Item 3 and Item 4 were amplified using GlobalFiler STR kit on 9700 GeneAmp PCR System. Y-STR amplification was carried out on Item 2, Item 3 and Item 4 using AmFISTR Y-Filer kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis of GlobalFiler amplicons were carried out on Genetic Analyzer 3500xL for Item 1, Item 2, Item 3 and Item 4. Electrophoresis of Y-Filer amplicons were carried out on Genetic Analyzer 3500xL for Item 2, Item 3 and Item 4. Quality Control: Reagent blank, positive control and negative control were incorporated throughout analysis and all gave intended results. NM - non male
F3X4G8	Item 4 : blood and semen mixture from rag. Item 4 (e): Analysis (drop out probability : 0.10); Prosecution hypothesis : Item1 (victim) / Item 2 (suspect); Defense hypothesis : 2 unknowns. Match parameters: Probability of dropin : 0.05; Theta correction : 0.01. All observed alleles are present in the population statistics. Results: Overall Likelihood Ratio : over one billion. Item 4 (sp): suspect's profil is detected. Overall Likelihood Ratio : over one billion.
FQLUXN	NR=No Result
G7B4CD	NR = No Results; STRmix analysis was conducted on this test, data reported out in this test is from analysis using GeneMapper ID-X.
G8BY6H	NR= No Results
GQXUBA	NR = no results. STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X.
GXLBAE	NR= No Result. No comparisons performed. [Initials] 04/11/2022
HFFBQD	Note: 1) NR=No Results. 2) Conclusions were based on the data obtained from GeneMapper ID-X. 3) STRmix interpretation/investigation was performed on ITEM4F. 4) F fraction = e fraction; M fraction = sp fraction.
HXCZM8	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. Powerplex Fusion 6C is used only for allele verification.
K9KKWD	Extraction: Item 1 and Item 2 were extracted using in-situ method. Item 3 was extracted using Promega DNA-IQ Purification Kit via TECAN Freedom EVO® HID EVOLution™ Platform. Item 4 was extracted using differential extraction method. Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Trio DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using Globalfiler Express (GFE) Kit on ABI Proflex PCR System. Item 3 and Item 4 were amplified using Globalfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4. Quality Control: Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results. NM: Non-male allele
KWVGYF	Item 4sp: additional 20 peak at D12 may be attributed to elevated stutter (observed stutter percentage: 19.24%; [Laboratory] validated stutter percentage: 14.79%).
L66AJA	The epithelial fraction of Item 4 (CTS2207-0007-E-02) was a mixture of two individuals, where the deduced major component matches the Victim and the deduced minor component matches the Suspect. Denotations: { } = Imbalanced Alleles, [ ] = Minor Component. For the epithelial fraction of Item 4 at the D2S1338 locus, the major component was deduced as 21,26 and the minor component was deduced as 17,24.
LQ6LBG	NR = No Result. No comparisons performed [Initials] 4/13/22.



TABLE 5

WebCode	Additional Comments
MHRUM4	Item 1 - female profile (No Y-STR analysis undertaken)
NJD32X	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification. Item 2 at locus D2S1338 (GlobalFiler)– There is a minor allele 23, which is inconsistent with being a contributor to the overall profile. The peak height ratio of allele 23 to allele 24 is 14.44%, exceeding the Laboratory’s stutter threshold for this locus of 12.74%. The minor allele 23 is likely to be an elevated stutter. Item 2 at locus DYS627 (YFiler Plus) – There is a minor allele 22.2, which is inconsistent with being a contributor to the overall profile. The peak height ratio of allele 22.2 to allele 23 is 4.71%, exceeding the Laboratory’s stutter threshold for this locus of 3.04%. The minor allele 22.2 is likely to be an elevated stutter. Item 4sp at locus D12S391 (GlobalFiler)– There is a minor allele 20, which is inconsistent with being a contributor to the overall profile. The average peak height ratio of allele 20 to allele 21 is 16.28%, exceeding the Laboratory’s stutter threshold for this locus of 13.98%. The minor allele 20 is likely to be an elevated stutter.
PCEV4A	ND= Not detected
QWR3T8	Peaks modeled as stutter were not included in the allele tables
QWX28Q	Y-STR not performed on Item 1 because it gave no T.Y value with Quantifiler Trio.
R4PY8X	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification. Sample Item 2 at locus DYS448 – There is a minor allele 18, which is inconsistent with being a contributor to the overall profile. The average peak height ratio of allele 18 to allele 19 is 6.00%, exceeding the Laboratory’s stutter threshold for this locus of 5.06%. The minor allele 18 is likely to be an elevated stutter.
R8UK4B	NR=NO RESULTS. Sperm identified on Item 4. Human blood identified on Items 3 and 4 using the Hematrace test.
RNCTWY	NR=no results, STRmix analysis was conducted on this test, data reported out in this test is from analysis using GeneMapper ID-X.
RNYYGX	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. Powerplex Fusion 6C is used only for allele verification.
RPBNQ3	NR =No Result
RX4YXC	ND=no data. A portion of the extract from Items 3 and 4 was tested for the presence of human blood using the HemaTrace test. Human blood was detected. NOTE: The ABACard HemaTrace test kit is known to cross-react with some species of the Mustelidae family and with higher primates.
TFG3XA	NR = No Result. No comparisons performed. [Initials] 4/7/2022
TLNE9N	Y-STR analysis was not performed on Item 1 because no male DNA was detected using Quantifiler Trio.
TXJHHA	NR= no results
TXY238	Technical Review (Ownership Review) PT
U3C4P3	Item 4: 2 person mix profile - support for contrib > 100 billion for Suspect. Item 4: 2 person mix profile - support for contrib > 100 billion for Complainant.
U6D6PZ	NR = no result. STR results for Item 3: Peak observed below stochastic threshold (74 rfu) in bin for allele 31 that cannot be differentiated from an artifact. Reported peak 31.2 at 15,327 rfu. [Initials] 04/06/2022

TABLE 5

WebCode	Additional Comments
X3DFN3	Extraction: 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 Applied Biosystems 7500 Real-Time PCR Systems. Amplification: Item 1 and Item 2 were amplified using the AmpFLSTR Identifiler Direct PCR Amplification Kit on Applied Biosystems GeneAmp PCR System 9700. By using the in-situ method, Item 1 and Item 2 were also amplified using the AmpFLSTR Identifiler Yfiler PCR Amplification Kit on Applied Biosystems GeneAmp PCR System 9700. Item 3 and Item 4 were amplified using the AmpFLSTR Identifiler Plus and Yfiler PCR Amplification Kits on Applied Biosystems GeneAmp PCR System 9700. Electrophoresis: Electrophoresis was carried out on the 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.
XC8DL3	Technical Review (Ownership Review) PT
XCNGA3	Extraction: Item 3 and Item 4 were extracted using chelex extraction method. Quantification: Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification Kit by Real Time PCR 7500. Amplification: Item 1 and Item 2 were amplified using AmpFLSTR Identifiler Direct Kit on 9700 GeneAmp PCR System. Item 3 and Item 4 were amplified using AmpFLSTR Identifiler Plus Kit on 9700 GeneAmp PCR System. Item 2, Item 3 and Item 4 were amplified using AmpFLSTR YFiler Kit on the 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis for Identifiler Direct PCR products of Item 1 and Item 2 were using Genetic Analyzer 3500xl. Electrophoresis for Identifiler Plus PCR products of Item 3 and Item 4 were using Genetic Analyzer 3500xl. Electrophoresis for Y Filer PCR products of Item 2, Item 3 and Item 4 were using Genetic Analyzer 3500xl. Quality Control: Reagent blank, positive control and negative control were carried out through analysis and all gave the intended results.
XGXR4H	Y-STR analysis was not performed on item 1 because no male DNA was detected using Quantifiler Trio.
XNHTKV	STRmix analysis conducted on samples in this test. Data reported out in this test is from analysis using GeneMapper ID-X. NR=no results.
XRWJUW	NR-No Results
YRXMZR	NR = No Results. STRmix analysis was conducted on this test. Data reported out in this test is from analysis using Genemapper ID-X.
ZARTPX	Additional MAS stutter observed, and these peaks modeled as stutter were not included in the allele table per lab policy, were as follows: 1.4NS -- D1S1656 -- 12; D19S433 -- 14; and DYS576 -- 18.
ZAUM94	Sperm cells were confirmed through microscopic examination. NR = No results.

-End of Report-  
(Appendix may follow)

## Test No. 22-5802: DNA-Semen

DATA MUST BE SUBMITTED BY **May 2, 2022, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: 34C3FN

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

### Scenario:

Police are investigating a sexual assault that occurred in a vehicle involving a female victim and male suspect. The victim told police she took a taxi home from work and the male suspect was her driver. She reports the male went off route and pulled over at an unknown location. The suspect forced the victim to have sex with him in the back seat and used a rag to clean himself off. The victim punched the suspect several times and was able to escape. Police have apprehended the suspect that same day using the license plate number provided by the victim. Police are submitting a stain from the shirt the suspect was wearing (Item 3) and a stain from the rag found inside the vehicle (Item 4). Screening tests have been performed on both samples with the following results: Item 3 (suspect's shirt) is positive for blood, and Item 4 (rag) is positive for blood and semen. Also provided are known standards from the female victim (Item 1) and male suspect (Item 2).

### 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 stain from suspect's shirt (yellow)

Item 4: Questioned blood and semen mixture from rag (blue)













### 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)