



## **DNA-Semen Test No. 19-5804**

### **Summary Report**

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Each participant received a sample pack consisting of two known bloodstains and two questioned bloodstains which they were requested to analyze using their existing protocols. Data were returned from 166 participants and are compiled into the following tables:

	<u>Page</u>
<u><a href="#">Manufacturer's Information</a></u>	<u><a href="#">2</a></u>
<u><a href="#">Summary Comments</a></u>	<u><a href="#">4</a></u>
<u><a href="#">Table 1: STR Amplification Kit(s) &amp; Results</a></u>	<u><a href="#">5</a></u>
<u><a href="#">Table 2: YSTR Amplification Kit(s) &amp; Results</a></u>	<u><a href="#">69</a></u>
<u><a href="#">Table 3: Additional DNA Results</a></u>	<u><a href="#">156</a></u>
<u><a href="#">Table 4: DNA Interpretations</a></u>	<u><a href="#">157</a></u>
<u><a href="#">Table 5: Additional Comments</a></u>	<u><a href="#">163</a></u>
<u><a href="#">Appendix: Data Sheet</a></u>	

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

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

## **Manufacturer's Information**

Each sample pack consisted of two known bloodstains on clean, white muslin fabric (Items 1 & 2), and two questioned stains; one on clean, brown fabric (Item 3) and one on clean, off-white fabric (Item 4). Participants were requested to analyze these items using their existing protocols.

**SAMPLE PREPARATION:** The stains in Items 1, 2, and 4 were prepared using human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. The stain in Item 3 was a mixture prepared from human whole blood and semen. The semen sample was first thawed and mixed 1:1 with TAE buffer, then mixed 1:1 with the blood. Item 1 (50  $\mu$ l) was created using blood from a female donor. Items 2 and 4 (50  $\mu$ l) were created using blood collected from a male donor. Item 3 (50  $\mu$ l) was a 1:1 mixture that was prepared using blood from the female donor used for Item 1 and semen from a third party male donor whose known standard was not provided. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on July 1, 2019 following receipt of predistribution results.

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

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

## Manufacturer's Information, continued

### Amelogenin and STR Results

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

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	
<hr style="border-top: 1px dashed #000;"/>						
1	11,17.3	17,17	10,14	15,17	11,11	15,19
	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19	NM	NM	NM	NM	
<hr style="border-top: 1px dashed #000;"/>						
2	12,16.3	18,22	14,15	16,19	12,12	11,12
	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17	2	
<hr style="border-top: 1px dashed #000;"/>						
3-Blood	11,17.3	17,17	10,14	15,17	11,11	15,19
	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19	NM	NM	NM	NM	
<hr style="border-top: 1px dashed #000;"/>						
3-Semen	15.3,16	22,24	13,14	17,18	12,13	13,16
	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18	2	
<hr style="border-top: 1px dashed #000;"/>						
4	12,16.3	18,22	14,15	16,19	12,12	11,12
	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17	2	

### YSTR Results

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

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<hr style="border-top: 1px dashed #000;"/>									
2	34,37	14	18,19	14	31	24	10	11	13
	14	10	12	20	35	15	18	12	22
	38	11	13	16	17	22	20	12	13
<hr style="border-top: 1px dashed #000;"/>									
3-Semen	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
	37	12	13	17	18	22	25	10	11
<hr style="border-top: 1px dashed #000;"/>									
4	34,37	14	18,19	14	31	24	10	11	13
	14	10	12	20	35	15	18	12	22
	38	11	13	16	17	22	20	12	13

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

## **Summary Comments**

The DNA-Semen test is part of the DNA Sample Specific Series, where participants are advised of the body fluid(s) that made up the questioned stains. The test is designed to allow participants to assess their proficiency in the analysis of dried stains. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Item 1 was created using blood from a female donor. Items 2 and 4 were created using blood from a male donor. Item 3 was created using a mixture of blood from the same female donor used for Item 1 and semen from a male donor different from the male donor used for Item 2. (See Manufacturer's Information for preparation details)

Of the 166 participants that returned results, 160 reported DNA interpretations.

For the Item 3 stain, all but two of the participants that reported interpretations included the victim (Item 1) as possible contributors to Item 3. These two participants excluded the victim (Item 1) as a possible contributor to Item 3. All participants that reported interpretations excluded the suspect (Item 2) as a possible contributor to Item 3.

For the Item 4 stain, all participants that reported interpretations excluded the victim (Item 1) as a possible contributor to Item 4. All but one of the participants that reported interpretations included the suspect (Item 2) as a possible contributor to Item 4. This participant excluded the suspect (Item 2) as a possible contributor to Item 4.

A total of twelve participants reported allelic results that differed from consensus/predistribution results for one or more items. Most of these participants were missing or reported additional alleles at one or more loci for the epithelial or sperm fractions of Item 3. Based on the interpretations above, these inconsistencies did not appear to affect these participants' conclusions.

A total of 22 participants reported the use of PG software. There were several types of software used. However, the genotyping software STRmix was reported most frequently by participants.

# 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

2D7UBG	PowerPlex® Fusion					
		11,17.3	17	10,14	15,17	11
1		9,11	14	14,16	17,18	12,14
		14,18	12,13	30	15,17	X
		20,24	8,12	13,17		6,7
		15,19				8,9
<hr/>						
2ETJ7U	Investigator® 24plex					
		11,17.3	17,17	10,14	15,17	11,11
1		9,11	14,14	14,16	17,18	12,14
		14,18	12,13	30,30	15,17	X,X
		20,24			18,25.2	6,7
		15,19	-			8,9
<hr/>						
2XNKBR	Identifiler® Plus					
			17		15,17	11
1		9,11	14			12,14
		14,18	12,13	30		X,X
		20,24				6,7
		15,19				8,9
<hr/>						
3G2WMV	Investigator® 24plex					
		11,17.3	17,17	10,14	15,17	11,11
1		9,11	14,14	14,16	17,18	12,14
		14,18	12,13	30,30	15,17	X,X
		20,24			18,25.2	6,7
		15,19				8,9
<hr/>						
3JMPRB	GlobalFiler™					
		11,17.3	17	10,14	15,17	11
1		9,11	14	14,16	17,18	12,14
		14,18	12,13	30	15,17	X
		20,24			18,25.2	6,7
		15,19				8,9
<hr/>						
3NUYHY	GlobalFiler™, Fusion (Genemapper ID-X)					
		11,17.3	17	10,14	15,17	11
1		9,11	14	14,16	17,18	12,14
		14,18	12,13	30	15,17	X
		20,24	8,12	13,17		6,7
		15,19				8,9

TABLE 1

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

3QNX46	GlobalFiler™ Express					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	No Result			No Result	
3RF2M6	PowerPlex® 21 (STRmix)					
	11,17.3	17,17		15,17	11,11	15,19
1	9,11	14,14		17,18	12,14	10,11
	14,18	12,13	30,30		X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
3UANHG	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
3WA4LX	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
3X86UB	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
4AVA2T	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
4PQZEV	GlobalFiler™					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	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

4Z8QUR	Investigator® 24plex QS					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
4ZQ3K8	PowerPlex® 21					
	11,17.3	17,17		15,17	11,11	15,19
1	9,11	14,14		17,18	12,14	10,11
	14,18	12,13	30,30		X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
64LWWK	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
64ZELJ	PowerPlex® Fusion 5C					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
6ANVFW	GlobalFiler™ Express					
	11,17.3	17	10,14	15,17	11	NT
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	NT	NT	18,25.2	6,7	8,9
	15,19	NR	NT	NT	NR	
6CFLD4	GlobalFiler™					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	-			-	
6DV7HR	GlobalFiler™					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	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

6EGLEZ	PowerPlex® Fusion					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
6PN2MU	GlobalFiler™					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
7DNKYG	Investigator® 24plex					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
7DNXV6	GlobalFiler™					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
7FUFUZ	PowerPlex® Fusion 5C					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
7PGCXM	Identifiler®, Investigator® 24plex QS					
	11,17.3	17,17	10,14	15,17	11,11	N/A
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24	N/A	N/A	18,25.2	6,7	8,9
	15,19	N/A	N/A	N/A	N/A	
7Z29TY	PowerPlex® Fusion 6C (STRmix)					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19					



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 1 - STR Results

8A2XTU	GlobalFiler™ (mRMP by Familias3)					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
8D8PDA	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
8JNWJZ	GlobalFiler™ Express					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
8NLU8C	PowerPlex® Fusion 5C					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
8UC8AZ	PowerPlex® Fusion 6C					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19	ND	ND	ND		
8ZCFLU	GlobalFiler™ Express					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	No Result			No Result	
98U8BY	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19	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

9DHV4J	PowerPlex® ESI 16 FAST					
	11,17.3	17,17	10,14	15,17		
1		14,14	14,16	17,18		10,11
	14,18	12,13	30,30	15,17	X,X	
	20,24				6,7	
	15,19					
9FN79Y	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
9HUMMH	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
9HVN7V	PowerPlex® Fusion 6C (STRmix)					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19					
9TQ2XE	Investigator® 24plex					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
9ZB63W	PowerPlex® Fusion 5C					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19	NR				
A4MC3F	PowerPlex® Fusion 5C					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					

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 1 - STR Results

A923D2	PowerPlex® Fusion 6C (STRmix)					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19					
AH9R6E	PowerPlex® Fusion 5C					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
AW8LN2	PowerPlex® Fusion 6C					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19					
BMH992	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
BR789N	GlobalFiler™ Express					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	NR			NR	
BUZGWX	Identifiler® Plus					
		17,17		15,17	11,11	
1	9,11	14,14			12,14	10,11
	14,18	12,13	30,30		X,X	7,12
	20,24				6,7	8,9
	15,19					
BYQZR2	PowerPlex® Fusion 6C					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19					

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 1 - STR Results

CL39PC	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
CL6YVU	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
D74J97	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
D8H7KT	GlobalFiler™ Direct					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
DHLLQ	PowerPlex® Fusion 6C (STRmix)					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19					
DHTU4Q	PowerPlex® Fusion 5C					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19	NR				
EF4CEX	PowerPlex® 21					
	11,17.3	17,17		15,17	11,11	15,19
1	9,11	14,14		17,18	12,14	10,11
	14,18	12,13	30,30		X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					

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 1 - STR Results

EMQJDB	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
EX9283	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
FB8FFB	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
FDVZB8	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
FF4X2H	GlobalFiler™					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	NR			NR	
FPQWRM	PowerPlex® Fusion 6C (STRmix)					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19					
G2VBVC	Identifiler® Plus					
		17		15,17	11	
1	9,11	14			12,14	10,11
	14,18	12,13	30		X,X	7,12
	20,24				6,7	8,9
	15,19					

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 1 - STR Results

G6FGUT	PowerPlex® 21					
	11,17.3	17,17		15,17	11,11	15,19
1	9,11	14,14		17,18	12,14	10,11
	14,18	12,13	30,30		X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
GCXZ3U	PowerPlex® Fusion 6C					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19					
GG9KWG	Investigator® 24plex QS					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
GNAWTD	Identifiler® Plus					
	-	17	-	15,17	11	-
1	9,11	14	-	-	12,14	10,11
	14,18	12,13	30	-	X,X	7,12
	20,24	-	-	-	6,7	8,9
	15,19	-	-	-	-	
GXD RBH	PowerPlex® Fusion 6C					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19					
H7M86G	GlobalFiler™ Express					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	NR			NR	
HCQE KJ	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					

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 1 - STR Results

HLJUMP	PowerPlex® Fusion 5C					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
HLZJXA	PowerPlex® Fusion 5C					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19	-				
HRQ6T3	PowerPlex® Fusion 5C					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
HXUZKP	PowerPlex® PPFusion, GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19					
HYMW2W	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
HYNDXP	GlobalFiler™					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	-				
JAY3FR	GlobalFiler™					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					

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 1 - STR Results

JHF383	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
JHHPLV	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
JNJXYP	PowerPlex® 21, ESX-17					
	11,17.3	17	10,14	15,17	11	15,19
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X,X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19					
KDZHZT	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
KETPZJ	PowerPlex® Fusion 6C					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19					
KHV3NR	PowerPlex® 21					
	11,17.3	17,17		15,17	11,11	15,19
1	9,11	14,14		17,18	12,14	10,11
	14,18	12,13	30,30		X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
KKF9NE	GlobalFiler™ (TrueAllele)					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					



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 1 - STR Results

KNDVEH	PowerPlex® 21					
	11,17.3	17,17		15,17	11,11	15,19
1	9,11	14,14		17,18	12,14	10,11
	14,18	12,13	30,30		X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
KPUDRG	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
KUJWMJ	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19	NR				
KYXHN4	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
L6MHGP	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
L7BD6D	PowerPlex® Fusion 6C					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19					
LHP8HQ	PowerPlex® 21					
	11,17.3	17,17		15,17	11,11	15,19
1	9,11	14,14		17,18	12,14	10,11
	14,18	12,13	30,30		X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					

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 1 - STR Results

LWUQVC	GlobalFiler™					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
LXK2Z6	Investigator® 24plex					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
LYYK8G	PowerPlex® Fusion 6C (STRMix)					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19					
LZ3LLK	PowerPlex® 21					
	11,17.3	17		15,17	11	15,19
1	9,11	14		17,18	12,14	10,11
	14,18	12,13	30		X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
M4NG9C	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
MCVR9A	GlobalFiler™ (STRmix)					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
ME4D64	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					

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 1 - STR Results

MPMR97	PowerPlex® Fusion 5C					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
MQEZZM	PowerPlex® Fusion 6C (STRmix)					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19					
MRD29Y	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
MRPPGD	GlobalFiler™ Express					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	NR			NR	
N2AJ9Z	Investigator® 24plex					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	NAO				
N4G7Y7	Identifiler® Plus					
		17		15,17	11	
1	9,11	14			12,14	10,11
	14,18	12,13	30		X,X	7,12
	20,24				6,7	8,9
	15,19					
N69U4Z	Investigator® 24plex					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	NAO				

TABLE 1

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

N8WXNE	PowerPlex® 21					
	11,17.3	17		15,17	11	15,19
1	9,11	14		17,18	12,14	10,11
	14,18	12,13	30		X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
N8ZK38	Identifiler® Plus					
	-	17	-	15,17	11	-
1	9,11	14	-	-	12,14	10,11
	14,18	12,13	30	-	XX	7,12
	20,24	-	-	-	6,7	8,9
	15,19	-	-	-	-	-
N9GVFY	PowerPlex® Fusion 5C					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
NBGBJF	GlobalFiler™					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	XX	7,12
	20,24			18,25.2	6,7	8,9
	15,19	NR			NR	
NEKTXB	GlobalFiler™ Express					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	No Results			No Results	
NFAMN8	Identifiler® Plus					
		17		15,17	11	
1	9,11	14			12,14	10,11
	14,18	12,13	30		XX	7,12
	20,24				6,7	8,9
	15,19					
PGJHYJ	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					

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 1 - STR Results

PN3GYB	GlobalFiler™ Express					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
PNZUKH	GlobalFiler™					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	-			-	
QDZJQ2	Identifiler® Plus					
		17		15,17	11	
1	9,11	14			12,14	10,11
	14,18	12,13	30		X	7,12
	20,24				6,7	8,9
	15,19					
QF4RZY	PowerPlex® Fusion 5C					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
QHUUZK	GlobalFiler™					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
QJ4VU7	Investigator® 24plex					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	NAO				
QQJRHD	GlobalFiler™					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	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

QRHTQQ	PowerPlex® Fusion 5C					
1	11,17.3	17	10,14	15,17	11	
	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
QRVD9E	PowerPlex® Fusion					
1	11,17.3	17	10,14	15,17	11	
	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19	NR				
QU9R6N	GlobalFiler™ Direct					
1	11,17.3	17	10,14	15,17	11	
	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
R3VTKK	PowerPlex® 21					
1	11,17.3	17,17		15,17	11,11	15,19
	9,11	14,14		17,18	12,14	10,11
	14,18	12,13	30,30		X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
RGWTR9	GlobalFiler™					
1	11,17.3	17	10,14	15,17	11	
	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
RM2YYX	GlobalFiler™					
1	11,17.3	17	10,14	15,17	11	
	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
RNA2TA	PowerPlex® Fusion 6C (STRMix)					
1	11,17.3	17	10,14	15,17	11	
	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19					

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 1 - STR Results

RPAZAW	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
RRWCBN	GlobalFiler™ Direct					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
T2W896	Identifiler® Plus (not applicable)					
		**		**	**	
1	**	**		**	**	**
	**	**	**			**
	**				**	**
	**					**
T3T26U	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
T7PHPB	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19	N/R				
TW2DB4	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
TXJNMV	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					

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 1 - STR Results

U2UZWG	PowerPlex® Fusion 6C (STRmix)					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19					
UFFFZG	PowerPlex® Fusion 6C					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17	18,25.2	6,7	8,9
	15,19					
UFRM9Y	Identifiler®, Investigator® 24plex QS					
	11,17.3	17,17	10,14	15,17	11,11	N/A
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24	N/A	N/A	18,25.2	6,7	8,9
	15,19	N/A	N/A	N/A	N/A	
UQBVG6	GlobalFiler™ Express					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	NR			NR	
UYNTEP	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
VHJLYM	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	---
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17	---	6,7	8,9
	15,19	---	---	---	---	
VJMZ78	PowerPlex® Fusion 5C					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					



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 1 - STR Results

VK7JDZ	Identifiler® Plus					
	-	17	-	15,17	11	-
1	9,11	14	-	-	12,14	10,11
	14,18	12,13	30	-	X,X	7,12
	20,24	-	-	-	6,7	8,9
	15,19	-	-	-	-	-
W2PF7J	PowerPlex® Fusion					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
W8CPGW	Identifiler®, Investigator® 24plex QS					
	11,17.3	17,17	10,14	15,17	11,11	N/A
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24	N/A	N/A	18,25.2	6,7	8,9
	15,19	N/A	N/A	N/A	N/A	
WCLJBD	Identifiler® Plus					
		17,17		15,17	11,11	
1	9,11	14,14			12,14	10,11
	14,18	12,13	30,30		X,X	7,12
	20,24				6,7	8,9
	15,19					
WDJWVK	PowerPlex® 5C					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
WHBKC8	PowerPlex® 5C					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
WKG6Z8	PowerPlex® Fusion 5C					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					

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 1 - STR Results

WKXU97	PowerPlex® Fusion						
		11,17.3	17	10,14	15,17	11	
	1	9,11	14	14,16	17,18	12,14	10,11
		14,18	12,13	30	15,17	X	7,12
		20,24	8,12	13,17		6,7	8,9
	15,19	NR					
X4BGPD	Identifiler® Plus						
			17,17		15,17	11,11	
	1	9,11	14,14			12,14	10,11
		14,18	12,13	30,30		X,X	7,12
		20,24				6,7	8,9
	15,19						
X4MXHY	GlobalFiler™						
		11,17.3	17,17	10,14	15,17	11,11	
	1	9,11	14,14	14,16	17,18	12,14	10,11
		14,18	12,13	30,30	15,17	X,X	7,12
		20,24			18,25.2	6,7	8,9
	15,19	ND			ND		
XAYARZ	GlobalFiler™						
		11,17.3	17,17	10,14	15,17	11,11	
	1	9,11	14,14	14,16	17,18	12,14	10,11
		14,18	12,13	30,30	15,17	X,X	7,12
		20,24			18,25.2	6,7	8,9
	15,19	No Result			No Result		
XGD6NT	GlobalFiler™						
		11,17.3	17	10,14	15,17	11	
	1	9,11	14	14,16	17,18	12,14	10,11
		14,18	12,13	30	15,17	X	7,12
		20,24			18,25.2	6,7	8,9
	15,19						
XKJFTA	PowerPlex® 21						
		11,17.3	17,17		15,17	11,11	15,19
	1	9,11	14,14		17,18	12,14	10,11
		14,18	12,13	30,30		X,X	7,12
		20,24	8,12	13,17		6,7	8,9
	15,19						
XKVU2Y	PowerPlex® Fusion						
		11,17.3	17	10,14	15,17	11	
	1	9,11	14	14,16	17,18	12,14	10,11
		14,18	12,13	30	15,17	X	7,12
		20,24	8,12	13,17		6,7	8,9
	15,19	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

XYD6KZ	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
Y792QW	PowerPlex® Fusion 5C					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19	NR				
YKQBQL	GlobalFiler™					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	--			--	
YLJP2C	GlobalFiler™					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
YMGCWA	Identifiler® Plus					
		17,17		15,17	11,11	
1	9,11	14,14			12,14	10,11
	14,18	12,13	30,30		X,X	7,12
	20,24				6,7	8,9
	15,19					
ZACFD8	NGM SElect					
	11,17.3	17,17	10,14	15,17		
1		14,14	14,16	17,18		10,11
	14,18	12,13	30,30	15,17	X,X	
	20,24			18,25.2	6,7	
	15,19					
ZD4YZX	GlobalFiler™ Express					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	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

ZKRCAY	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
ZL2CCK	GlobalFiler™					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
ZP32F9	GlobalFiler™ Express					
	11,17.3	17,17	10,14	15,17	11,11	
1	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	--			--	
ZQFAJ8	GlobalFiler™					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
ZWGHW2	GlobalFiler™ Express					
	11,17.3	17	10,14	15,17	11	
1	9,11	14	14,16	17,18	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,24			18,25.2	6,7	8,9
	15,19	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 2 - STR Results

2D7UBG	PowerPlex® Fusion					
		12,16.3	18,22	14,15	16,19	12
2		11,13	12,13	15	17.3,21	8,10
		12,18	14	29,32.2	16	X,Y
		22	13	13,14		8,9
		14,18	10			8,12
2ETJ7U	Investigator® 24plex					
		12,16.3	18,22	14,15	16,19	12,12
2		11,13	12,13	15,15	17.3,21	8,10
		12,18	14,14	29,32.2	16,16	X,Y
		22,22		25.2,29.2		8,9
		14,18	10			8,12
2XNKBR	Identifiler® Plus					
			18,22		16,19	12
2		11,13	12,13			8,10
		12,18	14	29,32.2		X,Y
		22				8,9
		14,18				8,12
3G2WMV	Investigator® 24plex					
		12,16.3	18,22	14,15	16,19	12,12
2		11,13	12,13	15,15	17.3,21	8,10
		12,18	14,14	29,32.2	16,16	X,Y
		22,22		25.2,29.2		8,9
		14,18	10			8,12
3JMPRB	GlobalFiler™					
		12,16.3	18,22	14,15	16,19	12
2		11,13	12,13	15	17.3,21	8,10
		12,18	14	29,32.2	16	X,Y
		22		25.2,29.2		8,9
		14,18	10			8,12
						2
3NUYHY	GlobalFiler™, Fusion (Genemapper ID-x)					
		12,16.3	18,22	14,15	16,19	12
2		11,13	12,13	15	17.3,21	8,10
		12,18	14	29,32.2	16	X,Y
		22	13	13,14		8,9
		14,18	10			8,12
3QNX46	GlobalFiler™ Express					
		12,16.3	18,22	14,15	16,19	12
2		11,13	12,13	15	17.3,21	8,10
		12,18	14	29,32.2	16	X,Y
		22		25.2,29.2		8,9
		14,18	10			8,12
						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

3RF2M6	PowerPlex® 21					
	12,16.3	18,22		16,19	12,12	11,12
2	11,13	12,13		17.3,21	8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18					
3UANHG	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
3WA4LX	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
3X86UB	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
4AVA2T	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
4PQZEV	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
4Z8QUR	Investigator® 24plex QS					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10				

TABLE 1

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

## Item 2 - STR Results

4ZQ3K8	PowerPlex® 21					
	12,16.3	18,22		16,19	12,12	11,12
2	11,13	12,13		17.3,21	8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18					
64LWWK	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
64ZELJ	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				
6ANVFW	GlobalFiler™ Express					
	12,16.3	18,22	14,15	16,19	12	NT
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	NT	NT	25.2,29.2	8,9	8,12
	14,18	10	NT	NT	2	
6CFLD4	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
6DV7HR	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
6EGLEZ	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				

TABLE 1

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

## Item 2 - STR Results

6PN2MU	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
7DNKYG	Investigator® 24plex					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10				
7DNXV6	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
7FUFUZ	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				
7PGCXM	Identifiler®, Investigator® 24plex QS					
	12,16.3	18,22	14,15	16,19	12,12	N/A
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	N/A	N/A	25.2,29.2	8,9	8,12
	14,18	10	N/A	N/A	N/A	
7Z29TY	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
8A2XTU	GlobalFiler™ (mRMP by FAMILIAS3)					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	



TABLE 1

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

## Item 2 - STR Results

8D8PDA	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
8JNWJZ	GlobalFiler™ Express					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
8NLU8C	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
8UC8AZ	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
8ZCFLU	GlobalFiler™ Express					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
98U8BY	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
9DHV4J	PowerPlex® ESI 16 FAST					
	12,16.3	18,22	14,15	16,19		
2		12,13	15,15	17.3,21		12,12
	12,18	14,14	29,32.2	16,16	X,Y	
	22,22				8,9	
	14,18					

TABLE 1

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

## Item 2 - STR Results

9FN79Y	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
9HUMMH	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
9HVN7V	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
9TQ2XE	Investigator® 24plex					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10				
9ZB63W	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
A4MC3F	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				
A923D2	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		

TABLE 1

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

## Item 2 - STR Results

AH9R6E	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				
AW8LN2	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
BMH992	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
BR789N	GlobalFiler™ Express					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
BUZGWX	Identifiler® Plus					
		18,22		16,19	12,12	
2	11,13	12,13			8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22				8,9	8,12
	14,18					
BYQZR2	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
CL39PC	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				

TABLE 1

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

## Item 2 - STR Results

CL6YVU	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
D74J97	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
D8H7KT	GlobalFiler™ Direct					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
DHLLQ	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
DHTU4Q	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
EF4CEX	PowerPlex® 21					
	12,16.3	18,22		16,19	12,12	11,12
2	11,13	12,13		17.3,21	8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18					
EMQJDB	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				

TABLE 1

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

## Item 2 - STR Results

EX9283	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
FB8FFB	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
FDVZB8	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
FF4X2H	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
FPQWRM	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
G2VBVC	Identifiler® Plus					
		18,22		16,19	12	
2	11,13	12,13			8,10	12
	12,18	14	29,32.2		X,Y	10,12
	22				8,9	8,12
	14,18					
G6FGUT	PowerPlex® 21					
	12,16.3	18,22		16,19	12,12	11,12
2	11,13	12,13		17.3,21	8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18					

TABLE 1

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

## Item 2 - STR Results

GCXZ3U	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
GG9KWG	Investigator® 24plex QS					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10				
GNAWTD	Identifiler® Plus					
	-	18,22	-	16,19	12	-
2	11,13	12,13	-	-	8,10	12
	12,18	14	29,32.2	-	X,Y	10,12
	22	-	-	-	8,9	8,12
	14,18	-	-	-	-	
GXDRBH	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
H7M86G	GlobalFiler™ Express					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
HCQEJ	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
HLJUMP	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				

TABLE 1

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

## Item 2 - STR Results

HLZJXA	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				
HRQ6T3	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
HXUZKP	PowerPlex® PPFusion, GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18					
HYMW2W	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
HYNDXP	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
JAY3FR	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
JHF383	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				

TABLE 1

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

## Item 2 - STR Results

JHHPLV	GlobalFiler™						
		12,16.3	18,22	14,15	16,19	12	
	2	11,13	12,13	15	17.3,21	8,10	12
		12,18	14	29,32.2	16	X,Y	10,12
		22			25.2,29.2	8,9	8,12
		14,18	10			2	
JNJXYP	PowerPlex® 21, ESX-17						
		12,16.3	18,22	14,15	16,19	12	11,12
	2	11,13	12,13	15	17.3,21	8,10	12
		12,18	14	29,32.2	16	X,Y	10,12
		22	13	13,14	25.2,29.2	8,9	8,12
		14,18					
KDHZHT	GlobalFiler™						
		12,16.3	18,22	14,15	16,19	12	
	2	11,13	12,13	15	17.3,21	8,10	12
		12,18	14	29,32.2	16	X,Y	10,12
		22			25.2,29.2	8,9	8,12
		14,18	10			2	
KETPZJ	PowerPlex® Fusion 6C						
		12,16.3	18,22	14,15	16,19	12	
	2	11,13	12,13	15	17.3,21	8,10	12
		12,18	14	29,32.2	16	X,Y	10,12
		22	13	13,14	25.2,29.2	8,9	8,12
		14,18	10	16	17		
KHV3NR	PowerPlex® 21						
		12,16.3	18,22		16,19	12,12	11,12
	2	11,13	12,13		17.3,21	8,10	12,12
		12,18	14,14	29,32.2		X,Y	10,12
		22,22	13,13	13,14		8,9	8,12
		14,18					
KKF9NE	GlobalFiler™ (TrueAllele)						
		12,16.3	18,22	14,15	16,19	12	
	2	11,13	12,13	15	17.3,21	8,10	12
		12,18	14	29,32.2	16	X,Y	10,12
		22			25.2,29.2	8,9	8,12
		14,18	10			2	
KNDVEH	PowerPlex® 21						
		12,16.3	18,22		16,19	12,12	11,12
	2	11,13	12,13		17.3,21	8,10	12,12
		12,18	14,14	29,32.2		X,Y	10,12
		22,22	13,13	13,14		8,9	8,12
		14,18					



TABLE 1

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

## Item 2 - STR Results

KPUDRG	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
KUJWMJ	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
KYXHN4	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
L6MHGP	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
L7BD6D	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
LHP8HQ	PowerPlex® 21					
	12,16.3	18,22		16,19	12,12	11,12
2	11,13	12,13		17.3,21	8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18					
LVUQVC	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	

TABLE 1

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

## Item 2 - STR Results

LXK2Z6	Investigator® 24plex					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10				
LYYK8G	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
LZ3LLK	PowerPlex® 21					
	12,16.3	18,22		16,19	12	11,12
2	11,13	12,13		17.3,21	8,10	12
	12,18	14	29,32.2		X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18					
M4NG9C	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
MCVR9A	GlobalFiler™ (STRmix)					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
ME4D64	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
MPMR97	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				

TABLE 1

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

## Item 2 - STR Results

MQEZZM	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
MRD29Y	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
MRPPGD	GlobalFiler™ Express					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
N2AJ9Z	Investigator® 24plex					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10				
N4G7Y7	Identifiler® Plus					
		18,22		16,19	12	
2	11,13	12,13			8,10	12
	12,18	14	29,32.2		X,Y	10,12
	22				8,9	8,12
	14,18					
N69U4Z	Investigator® 24plex					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10				
N8WXNE	PowerPlex® 21					
	12,16.3	18,22		16,19	12	11,12
2	11,13	12,13		17.3,21	8,10	12
	12,18	14	29,32.2		X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18					

TABLE 1

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

## Item 2 - STR Results

N8ZK38	Identifiler® Plus					
	-	18,22	-	16,19	12	-
2	11,13	12,13	-	-	8,10	12
	12,18	14	29,32.2	-	X,Y	10,12
	22	-	-	-	8,9	8,12
	14,18	-	-	-	-	-
N9GVFY	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
NBGBJF	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
NEKTXB	GlobalFiler™ Express					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
NFAMN8	Identifiler® Plus					
		18,22		16,19	12	
2	11,13	12,13			8,10	12
	12,18	14	29,32.2		X,Y	10,12
	22				8,9	8,12
	14,18					
PGJHYJ	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
PN3GYB	GlobalFiler™ Express					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	

TABLE 1

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

## Item 2 - STR Results

PNZUKH	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
QDZJQ2	Identifiler® Plus					
		18,22		16,19	12	
2	11,13	12,13			8,10	12
	12,18	14	29,32.2		X,Y	10,12
	22				8,9	8,12
	14,18					
QF4RZY	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				
QHUUZK	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
QJ4VU7	Investigator® 24plex					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10				
QQJRHD	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
QRHTQQ	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				

TABLE 1

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

## Item 2 - STR Results

QRVD9E	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
QU9R6N	GlobalFiler™ Direct					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
R3VTKK	PowerPlex® 21					
	12,16.3	18,22		16,19	12,12	11,12
2	11,13	12,13		17.3,21	8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18					
RGWTR9	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
RM2YYX	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
RNA2TA	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
RPAZAW	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				

TABLE 1

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

## Item 2 - STR Results

RRWCBN	GlobalFiler™ Direct					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
T2W896	Identifiler® Plus					
		21,24		16,17	10,13	
2	8,11	14,15			13,13	11,12
	15,19	12.2,12.2	29,31		X,Y	9,15
	25,25				7,8	9,11
	16,16					
T3T26U	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
T7PHPB	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
TW2DB4	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
TXJNMV	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
U2UZWG	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		

TABLE 1

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

## Item 2 - STR Results

UFFFZG	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
UFRM9Y	Identifiler®, Investigator® 24plex QS					
	12,16.3	18,22	14,15	16,19	12,12	N/A
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	N/A	N/A	25.2,29.2	8,9	8,12
	14,18	10	N/A	N/A	N/A	
UQBVG6	GlobalFiler™ Express					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
UYNTEP	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
VHJLYM	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	---
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	---	8,9	8,12
	14,18	10	---	---	---	
VJMZ78	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				
VK7JDZ	Identifiler® Plus					
	-	18,22	-	16,19	12	-
2	11,13	12,13	-	-	8,10	12
	12,18	14	29,32.2	-	X,Y	10,12
	22	-	-	-	8,9	8,12
	14,18	-	-	-	-	



TABLE 1

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

## Item 2 - STR Results

W2PF7J	PowerPlex® Fusion						
		12,16.3	18,22	14,15	16,19	12	
	2	11,13	12,13	15	17.3,21	8,10	12
		12,18	14	29,32.2	16	X,Y	10,12
		22	13	13,14		8,9	8,12
	14,18	10					
W8CPGW	Identifiler®, Investigator® 24plex QS						
		12,16.3	18,22	14,15	16,19	12,12	N/A
	2	11,13	12,13	15,15	17.3,21	8,10	12,12
		12,18	14,14	29,32.2	16,16	X,Y	10,12
		22,22	N/A	N/A	25.2,29.2	8,9	8,12
	14,18	10	N/A	N/A	N/A		
WCLJBD	Identifiler® Plus						
			18,22		16,19	12,12	
	2	11,13	12,13			8,10	12,12
		12,18	14,14	29,32.2		X,Y	10,12
		22,22				8,9	8,12
	14,18						
WDJWVK	PowerPlex® 5C						
		12,16.3	18,22	14,15	16,19	12	
	2	11,13	12,13	15	17.3,21	8,10	12
		12,18	14	29,32.2	16	X,Y	10,12
		22	13	13,14		8,9	8,12
	14,18	10					
WHBKC8	PowerPlex® 5C						
		12,16.3	18,22	14,15	16,19	12,12	
	2	11,13	12,13	15,15	17.3,21	8,10	12,12
		12,18	14,14	29,32.2	16,16	X,Y	10,12
		22,22	13,13	13,14		8,9	8,12
	14,18	10					
WKG6Z8	PowerPlex® Fusion 5C						
		12,16.3	18,22	14,15	16,19	12,12	
	2	11,13	12,13	15,15	17.3,21	8,10	12,12
		12,18	14,14	29,32.2	16,16	X,Y	10,12
		22,22	13,13	13,14		8,9	8,12
	14,18	10					
WKXU97	PowerPlex® Fusion						
		12,16.3	18,22	14,15	16,19	12	
	2	11,13	12,13	15	17.3,21	8,10	12
		12,18	14	29,32.2	16	X,Y	10,12
		22	13	13,14		8,9	8,12
	14,18	10					

TABLE 1

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

## Item 2 - STR Results

X4BGPD	Identifiler® Plus					
		18,22		16,19	12,12	
2	11,13	12,13			8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22				8,9	8,12
	14,18					
X4MXHY	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
XAYARZ	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
XGD6NT	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
XKJFTA	PowerPlex® 21					
	12,16.3	18,22		16,19	12,12	11,12
2	11,13	12,13		17.3,21	8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18					
XKVU2Y	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
XYD6KZ	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	

TABLE 1

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

## Item 2 - STR Results

Y792QW	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
YKQBQL	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
YLJP2C	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
YMGCWA	Identifiler® Plus					
		18,22		16,19	12,12	
2	11,13	12,13			8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22				8,9	8,12
	14,18					
ZACFD8	NGM SElect					
	12,16.3	18,22	14,15	16,19		
2		12,13	15,15	17.3,21		12,12
	12,18	14,14	29,32.2	16,16	X,Y	
	22,22			25.2,29.2	8,9	
	14,18					
ZD4YZX	GlobalFiler™ Express					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
ZKRCAY	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	

TABLE 1

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

## Item 2 - STR Results

ZL2CCK	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
ZP32F9	GlobalFiler™ Express					
	12,16.3	18,22	14,15	16,19	12,12	
2	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
ZQFAJ8	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
ZWGHW2	GlobalFiler™ Express					
	12,16.3	18,22	14,15	16,19	12	
2	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	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

6CFLD4	GlobalFiler™						
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
	3	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
		18,20,22,24			18,15.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2		
7DNXV6	GlobalFiler™						
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
	3	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
		18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2		
8A2XTU	GlobalFiler™ (LRmix Studio)						
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
	3	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
		18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2		
HYNDXP	GlobalFiler™						
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
	3	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
		18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2		
PNZUKH	GlobalFiler™						
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
	3	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
		18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2		
YLJP2C	GlobalFiler™						
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
	3	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
		18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2		
ZACFD8	NGM SElect						
		11,15.3,16,17.3	17,17,22,24	10,13,14	15,17,18		
	3		12,13,14	13,14,16,17	17,18,21,24		10,11,12
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	
		18,20,22,24			18,25.2,28.2,37	5,6,7,8	
	14,15,16,19						

TABLE 1

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

## Item 3e - STR Results

2D7UBG	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
2ETJ7U	Investigator® 24plex					
	11,[15.3,16],17.3	17,17,[22,24]	10,[13],14	15,17,[18]	11,11,[12,13]	
3e	[8],9,[10],11	[12,13],14,14	[13],14,16,[17]	17,18,[21,24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,30,[32.2]	15,[16],17	X,X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2],[37]	5,6,7,8	8,9,[11]
	[14],15,[16],19	[11]				
2XNKBR	Identifiler® Plus					
		17,22,24		15,17,18	11,12,13	
3e	8,9,10,11	12,13,14			8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2		X,Y	7,10,12
	18,20,22,24				5,6,7,8	8,9,11
	14,15,16,19					
3G2WMV	Investigator® 24plex					
	NR	17	10,13,14	17,18	11	
3e	8	14	14,16	17,18,24	12	10,11
	15	12,13	NR	17	X,Y	10,12
	18			NR	5,8	8,9,11
	NR	11				
3JMPRB	GlobalFiler™					
	11,[15.3],[16],17.3	17,[22],[24]	10,[13],14	15,17,[18]	11,[12],[13]	
3e	[8],9,[10],11	[12],[13],14	[13],14,16,[17]	17,18,[21],[24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2],[37]	5,6,7,8	8,9,[11]
	[14],15,[16],19	11			2	
3NUYHY	GlobalFiler™, Fusion (Genemapper ID-x)					
3e						
3QNX46	GlobalFiler™					
	11,[15.3,16],17.3	17,[22,24]	10,[13],14	15,17,[18]	11,[12,13]	
3e	[8],9,[10],11	[12,13],14	[13],14,16,[17]	17,18,[21,24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2,37]	[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	[11]			[2]	

TABLE 1

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

## Item 3e - STR Results

3RF2M6	PowerPlex® 21 (STRmix)					
	11,15.3,16,17.3	17,22,24		15,17,18	11,12,13	13,15,16,19
3e	8,9,10,11	12,13,14		17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2		X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19					
3UANHG	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
3WA4LX	GlobalFiler™					
	11,[15.3],[16],17.3	17,[22],[24]	10,[13],14	15,17,[18]	11,[12],[13]	
3e	[8],9,[10],11	[12],[13],14	[13],14,16,[17]	17,18,[21],[24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2],[37]	[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	11			2	
4AVA2T	GlobalFiler™					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2	
4PQZEV	GlobalFiler™					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2	
4Z8QUR	Investigator® 24plex QS					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24			18,25.2,37	5,6,7,8	8,9,11
	14,15,16,19	11				
4ZQ3K8	PowerPlex® 21					
	11,15.3,16,17.3	17,22,24		15,17,18	11,12,13	13,15,16,19
3e	8,9,10,11	12,13,14		17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2		X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19					

TABLE 1

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

## Item 3e - STR Results

64LWWK	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22	10,13,14	15,17,18	11,12,13	
3e	9,11	12,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	15,16,19	11				
64ZELJ	PowerPlex® Fusion 5C					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
6ANVFW	GlobalFiler™					
	11,[15.3,16],17.3	17,[22,24]	10,[13],14	15,17,[18]	11,[12,13]	NT
3e	[8],9,[10],11	[12,13],14	[13],14,16,[17]	17,18,[21,24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
	[18],20,[22],24	NT	NT	18,25.2,[28.2,37]	[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	[11]	NT	NT	[2]	
6DV7HR	GlobalFiler™					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2	
6EGLEZ	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
6PN2MU	GlobalFiler™					
	11,[15.3],[16],17.3	17,[22],[24]	10,[13],14	15,17,[18]	11,[12],[13]	
3e	[8],9,[10],11	[12],[13],14	[13],14,16,[17]	17,18,[21],[24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2],[37]	[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	[11]			[2]	
7DNKYG	Investigator® 24plex					
	11,[15.3],[16],17.3	17,[22],[24]	10,[13],14	15,17,[18]	11,[12],[13]	
3e	[8],9,[10],11	[12],[13],14	[13],14,16,[17]	17,18,[21],[24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2],[37]	5,6,7,8	8,9,[11]
	[14],15,[16],19	[11]				



TABLE 1

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

## Item 3e - STR Results

7FUFUZ	PowerPlex® Fusion 5C					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
7PGCXM	Identifiler®, Investigator® 24plex QS					
	11,[15.3],[16],17.3	17,[22],[24]	10,[13],14	15,17,[18]	11,[12],[13]	N/A
3e	[8],9,[10],11	[12],[13],14	[13],14,16,[17]	17,18,[21],[24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
	[18],20,[22],24	N/A	N/A	18,25.2,[28.2],[37]	[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	11	N/A	N/A	N/A	
7Z29TY	PowerPlex® Fusion 6C (STRmix)					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17	18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11	17	18		
8D8PDA	GlobalFiler™					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2	
8JNWJZ	GlobalFiler™					
	11,(15.3),17.3	17,17	10,(13),14	15,17,(18)	11,(12),(13)	
3e	9,11	(12),14	14,16	17,18	(8),12,14	10,11
	14,18	12,13	30,30	15,(16),17	X,(Y)	7,(10),12
	20,24			18,25.2	(5),6,7,(8)	8,9
	15,19	11			2	
8NLU8C	PowerPlex® Fusion 5C					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
8UC8AZ	PowerPlex® Fusion 6C					
	11,[15.3],[16],17.3	17,[22],[24]	10,[13],14	15,17,[18]	11,[12],[13]	
3e	[8],9,[10],11	[12],[13],14	[13],14,16,[17]	17,18,[21],[24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,X,[Y]	7,[10],12
	[18],20,[22],24	8,[9],12	13,17	18,25.2,[28.2],[37]	[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	[11]	[17]	[18]		

TABLE 1

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

## Item 3e - STR Results

8ZCFLU	GlobalFiler™					
	11,[15.3],[16],17.3	17,[22],[24]	10,[13],14	15,17,[18]	11,[12],[13]	
3e	[8],9,[10],11	[12],[13],14	[13],14,16,[17]	17,18,[21],[24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2],[37]	[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	[11]			[2]	
98U8BY	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
9DHV4J	PowerPlex® ESI 16 FAST					
	11,17.3	17,17	10,14	15,17		
3e		14,14	14,16	17,18		10,11
	14,18	12,13	30,30	15,17	X,X	
	20,24				6,7	
	15,19					
9FN79Y	GlobalFiler™					
	11,(15.3,16),17.3	17,(22,24)	10,13,14	15,17,18	11,(12,13)	
3e	(8),9,(10),11	(12,13),14	13,14,16,17	17,18,(21,24)	8,12,14	10,11,(12)
	12,14,15,18	12,13,16	30,(32.2)	15,16,17	X,(Y)	7,10,12
	(18),20,(22),24			18,25.2,(28.2,37)	(5),6,7,(8)	8,9,(11)
	(14),15,(16),19	(11)			(2)	
9HUMMH	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
9HVN7V	PowerPlex® Fusion 6C (STRmix)					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17	18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11	17	18		
9TQ2XE	Investigator® 24plex					
	11,[15.3],[16],17.3	17,[22],[24]	10,[13],14	15,17,[18]	11,[12],[13]	
3e	[8],9,[10],11	[12],[13],14	[13],14,16,[17]	17,18,[21],[24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2],[37]	5,6,7,8	8,9,[11]
	15,[16],19	[11]				

TABLE 1

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

## Item 3e - STR Results

9ZB63W	PowerPlex® 5C					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
A4MC3F	PowerPlex® 5C					
	11,15.3,16,17.3	17,24	10,13,14	15,17,18	11,12,13	
3e	9,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	15,16,19	11				
A923D2	PowerPlex® Fusion 6C (STRmix)					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17	18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11	17	18		
AH9R6E	PowerPlex® Fusion 5C					
	11,15.3,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19					
AW8LN2	PowerPlex® Fusion 6C (STRmix)					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17	18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11	17	18		
BR789N	GlobalFiler™					
	11,[15.3,16],17.3	17,[22,24]	10,[13],14	15,17,[18]	11,[12,13]	
3e	[8],9,[10],11	[12,13],14	[13],14,16,[17]	17,18,[21,24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2,37]	[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	[11]			[2]	
BUZGWX	Identifiler® Plus					
		17,22,24		15,17,18	11,12,13	
3e	8,9,10,11	12,13,14			8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2		X,Y	7,10,12
	18,20,22,24				5,6,7,8	8,9,11
	14,15,16,19					

TABLE 1

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

## Item 3e - STR Results

BYQZR2	PowerPlex® Fusion 6C (STRmix)					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17	18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11	17	18		
CL39PC	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
CL6YVU	GlobalFiler™					
	11,[15.3],[16],17.3	17,[22],[24]	10,[13],14	15,17,[18]	11,[12],[13]	
3e	8,9,10,11	12,13,14	[13],14,16,[17]	17,18,[21],[24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,16,17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2],[37]	5,6,7,8	8,9,11
	[14],15,[16],19	11			2	
D74J97	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
D8H7KT	GlobalFiler™					
	11,15.3,16,17.3	17,[22],[24]	10,[13],14	15,17,[18]	11,[12],[13]	
3e	[8],9,[10],11	[12],[13],14	13,14,16,17	17,18,[21],[24]	8,12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,16,17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2],[37]	5,6,7,8	8,9,11
	[14],15,[16],19	11			2	
DHHLLQ	PowerPlex® Fusion 6C (STRmix)					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,24	8,12,14	10,11,12
	12,14,15,18	12,13	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17	18,25.2,28.2,37	5,6,7,8	8,9
	14,15,16,19	11	17	18		
DHTU4Q	PowerPlex® Fusion 5C					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				

TABLE 1

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

## Item 3e - STR Results

EF4CEX	PowerPlex® 21					
	11,17.3	17,17		15,17	11,11	15,19
3e	9,11	14,14		17,18	12,14	10,11
	14,18	12,13	30,30		X,X	7,12
	20,24	8,12	13,17		6,7	8,9
	15,19					
EMQJDB	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	15,16,19	11				
EX9283	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	9,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
FB8FFB	GlobalFiler™					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2	
FDVZB8	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
FF4X2H	GlobalFiler™					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2	
FPQWRM	PowerPlex® Fusion 6C (STRmix)					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17	18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11	17	18		

TABLE 1

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

## Item 3e - STR Results

G2VBVC	Identifiler® Plus					
		17,22,24		15,17,18	11,12,13	
3e		8,9,10,11	12,13,14		8,12,14	10,11,12
		12,14,15,18	12,13,16	30,32.2	X,Y	7,10,12
		18,20,22,24			5,6,7,8	8,9,11
		14,15,16,19				
G6FGUT	PowerPlex® 21 (STRmix)					
		11,15.3,16,17.3	17,22,24	15,17,18	11,12,13	13,15,16,19
3e		8,9,10,11	12,13,14	17,18,21,24	8,12,14	10,11,12
		12,14,15,18	12,13,16	30,32.2	X,Y	7,10,12
		18,20,22,24	8,9,12	13,17	5,6,7,8	8,9,11
		14,15,16,19				
GCXZ3U	PowerPlex® Fusion 6C (STRmix)					
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13
3e		8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y
		18,20,22,24	8,9,12	13,17	18,25.2,37	5,6,7,8
		14,15,16,19	11	17	18	8,9,11
GG9KWG	Investigator® 24plex QS					
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13
3e		8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y
		18,20,22,24			18,25.2,28.2,37	5,6,7,8
		14,15,16,19	11			8,9,11
GNAWTD	Identifiler® Plus					
		-	17,22,24	-	15,17,18	11,12,13
3e		8,9,10,11	12,13,14	-	-	8,12,14
		12,14,15,18	12,13,16	30,32.2	-	X,Y
		18,20,22,24	-	-	-	5,6,7,8
		14,15,16,19	-	-	-	8,9,11
GXDRBH	PowerPlex® Fusion 6C					
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13
3e		8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y
		18,20,22,24	8,9,12	13,17	18,25.2,28.2,37	5,6,7,8
		14,15,16,19	11	17	18	8,9,11
H7M86G	GlobalFiler™					
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13
3e		8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y
		18,20,22,24			18,25.2,28.2,37	5,6,7,8
		14,15,16,19	11			8,9,11
					2	

TABLE 1

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

## Item 3e - STR Results

HCQEKJ	GlobalFiler™					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2	
HLJUMP	PowerPlex® Fusion 5C					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
HLZJXA	PowerPlex® Fusion 5C					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
HRQ6T3	PowerPlex® Fusion 5C					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
HXUZKP	PowerPlex® PPFusion, GlobalFiler™					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17	18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19					
JAY3FR	GlobalFiler™					
	11,17.3	17,17	10,14	15,17	11,11	
3e	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
JHF383	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				

TABLE 1

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

## Item 3e - STR Results

JHHPLV	GlobalFiler™					
	11,[15.3],[16],17.3	17,[22],[24]	10,[13],14	15,17,[18]	11,[12],[13]	
3e	[8],9,[10],11	[12],[13],14	[13],14,16,[17]	17,18,[21],[24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2],[37]	[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	11			2	
JNJXYP	PowerPlex® 21, ESX-17					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	13,15,16,19
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17	18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19					
KETPZJ	PowerPlex® Fusion 6C (STRmix)					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17	18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11	17	18		
KHV3NR	PowerPlex® 21					
	11,[15.3],[16],17.3	17,[22],[24]		15,17,[18]	11,[12],[13]	[13],15,[16],19
3e	[8],9,[10],11	[12],[13],14		17,18,[21],[24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]		X,[Y]	7,[10],12
	[18],20,[22],24	8,[9],12	13,17		[5],6,7,[8]	8,9,[11]
	[14],15,[16],19					
KKF9NE	GlobalFiler™ (TrueAllele)					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2	
KNDVEH	PowerPlex® 21					
	11,15.3,16,17.3	17,22,24		15,17,18	11,12,13	13,15,16,19
3e	8,9,10,11	12,13,14		17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2		X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19					
KPUDRG	GlobalFiler™					
	11,[15.3],[16],17.3	17,[22],[24]	10,[13],14	15,17,[18]	11,[12],[13]	
3e	[8],9,[10],11	[12],[13],14	[13],14,16,[17]	17,18,[21],[24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,16,17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2],[37]	[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	11			2	



TABLE 1

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

## Item 3e - STR Results

KUJWMJ	PowerPlex® Fusion						
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
	3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
		18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11					
KYXHN4	PowerPlex® Fusion						
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
	3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
		18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11					
L6MHGP	GlobalFiler™ (STRmix)						
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
	3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
		18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2		
L7BD6D	PowerPlex® Fusion 6C						
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
	3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
		18,20,22,24	8,9,12	13,17	18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11	17	18			
LHP8HQ	PowerPlex® 21						
		11,15.3,16,17.3	17,22,24		15,17,18	11,12,13	13,15,16,19
	3e	8,9,10,11	12,13,14		17,18,21,24	8,12,14	10,11,12
		12,14,15,18	12,13,16	30,32.2		X,Y	7,10,12
		18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19						
LVUQVC	GlobalFiler™						
		11,[15.3,16],17.3	17,[22,24]	10,[13],14	15,17,[18]	11,[12,13]	
	3e	[8],9,[10],11	[12,13],14	[13],14,16,[17]	17,18,[21,24]	[8],12,14	10,11,[12]
		[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
		[18],20,[22],24			18,25.2,[28.2,37]	[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	11			2		
LXK2Z6	Investigator® 24plex						
		11,[15.3],[16],17.3	17,[22],[24]	10,14	15,17	11,[12],[13]	
	3e	[8],9,11	[12],14	[13],14,16,[17]	17,18,[21],[24]	[8],12,14	10,11,[12]
		[12],14,[15],18	12,13,[16]	30,[32.2]	15,17	X,[Y]	7,[10],12
		[18],20,[22],24			18,25.2,[28.2],[37]	[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	[11]					

TABLE 1

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

## Item 3e - STR Results

LYYK8G	PowerPlex® Fusion 6C (STRmix)						
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
	3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
		18,20,22,24	8,9,12	13,17	18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11	17	18			
LZ3LLK	PowerPlex® 21						
		11,15.3,16,17.3	17,22,24		15,17,18	11,12,13	13,15,16,19
	3e	8,9,10,11	12,13,14		17,18,21,24	8,12,14	10,11,12
		12,14,15,18	12,13,16	30,32.2		X,Y	7,10,12
		18,20,22,24	8,9,12	13,17		5,6,7,8	N.A.
	14,15,16,19						
M4NG9C	GlobalFiler™						
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
	3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
		18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2		
MCVR9A	GlobalFiler™ (STRmix)						
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
	3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
		18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2		
ME4D64	GlobalFiler™						
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
	3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
		18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2		
MPMR97	PowerPlex® Fusion 5C						
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
	3e	8,9,10,11	12,14	14,16,17	17,18,21	8,12,14	10,11,12
		12,14,15,18	12,13,16	30,30	15,16,17	X,Y	7,10,12
		18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11					
MQEZZM	PowerPlex® Fusion 6C (STRmix)						
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
	3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
		12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
		18,20,22,24	8,9,12	13,17	18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11	17	18			

TABLE 1

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

## Item 3e - STR Results

MRD29Y	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	15,16,19	11				
MRPPGD	GlobalFiler™					
	11,[15.3],[16],17.3	17,[22],[24]	10,[13],14	15,17,[18]	11,[12],[13]	
3e	[8],9,[10],11	[12],[13],14	[13],14,16,[17]	17,18,[21],[24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,16,17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2],[37]	[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	[11]			[2]	
N2AJ9Z	Investigator® 24plex					
	NR	NR	NR	NR	NR	
3e	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	12
	NR			18	5	8,9
	NR	NR				
N4G7Y7	Identifiler® Plus					
		17,22,24		15,17,18	11,12,13	
3e	8,9,10,11	12,13,14			8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2		X,Y	7,10,12
	18,20,22,24				5,6,7,8	8,9,11
	14,15,16,19					
N69U4Z	Investigator® 24plex					
	11,15.3,16,17.3	17,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24			18,25.2,37	5,6,7,8	8,9,11
	15	11				
N8WXNE	PowerPlex® 21					
	11,15.3,16,17.3	17,22,24		15,17,18	11,12,13	13,15,16,19
3e	8,9,10,11	12,13,14		17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2		X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19					
N8ZK38	Identifiler® Plus					
	-	17,22,24	-	15,17,18	11,12,13	-
3e	8,9,10,11	12,13,14	-	-	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	-	X,Y	7,10,12
	18,20,22,24	-	-	-	5,6,7,8	8,9,11
	14,15,16,19	-	-	-	-	

TABLE 1

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

## Item 3e - STR Results

N9GVFY	PowerPlex® Fusion 5C					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
NBGBJF	GlobalFiler™					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2	
NEKTXB	GlobalFiler™					
	11,[15.3,16],17.3	17,[22,24]	10,[13],14	15,17,[18]	11,[12,13]	
3e	[8],9,[10],11	[12,13],14	[13],14,16,[17]	17,18,[21,24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2,37]	[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	[11]			[2]	
NFAMN8	Identifiler® Plus					
		17,22,24		15,17,18	11,12,13	
3e	8,9,10,11	12,13,14			8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2		X,Y	7,10,12
	18,20,22,24				5,6,7,8	8,9,11
	14,15,16,19					
PGJHYJ	GlobalFiler™					
	11,[15.3,16],17.3	17,[22,24]	10,[13],14	15,17,[18]	11,[12,13]	
3e	[8],9,[10],11	[12,13],14	[13],14,16,[17]	17,18,[21,24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,16,17	X,[Y]	7,[10],12
	[18],20,24			18,25.2,[28.2,37]	6,7,8	8,9
	[14],15,[16],19	[11]			[2]	
PN3GYB	GlobalFiler™					
	11,17.3	17,17	10,14	15,17	11,11	
3e	9,11	14,14	14,16	17,18	12,14	10,11
	14,18	12,13	30,30	15,17	X,X	7,12
	20,24			18,25.2	6,7	8,9
	15,19					
QDZJQ2	Identifiler® Plus					
		17,[22],[24]		15,17,[18]	11,[12],[13]	
3e	[8],9,[10],11	[12],[13],14			[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]		X,[Y]	7,[10],12
	[18],20,[22],24				[5],6,7,[8]	8,9,[11]
	[14],15,[16],19					

TABLE 1

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

## Item 3e - STR Results

QF4RZY	PowerPlex® Fusion 5C					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
QJ4VU7	Investigator® 24plex					
	11,17.3	17	10,14	15,17	11	
3e	9,11	14	13,14,16	17,18,21,24	12,14	10,11
	14,18	12,13	30	15,17	X	7,12
	20,22,24			18,25.2	6,7	8,12
	15,19					
QQJRHD	GlobalFiler™					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2	
QRHTQQ	PowerPlex® Fusion 5C					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,19	11				
QRVD9E	PowerPlex® Fusion					
	11,(15.3),(16),17.3	17,(22),(24)	10,(13),14	15,17,(18)	11,(12),(13)	
3e	(8),9,(10),11	(12),(13),14	(13),14,16,(17)	17,18,(21),(24)	(8),12,14	10,11,(12)
	(12),14,(15),18	12,13,(16)	30,(32.2)	15,(16),17	X,(Y)	7,(10),12
	(18),20,(22),24	8,(9),12	13,17		(5),6,7,(8)	8,9,(11)
	(14),15,(16),19	(11)				
QU9R6N	GlobalFiler™					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2	
R3VTKK	PowerPlex® 21					
	11,15.3,16,17.3	17,22,24		15,17,18	11,12,13	13,15,16,19
3e	8,9,10,11	12,13,14		17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2		X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19					

TABLE 1

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

## Item 3e - STR Results

RGWTR9	GlobalFiler™					
	11,[15.3],[16],17.3	17,[22],[24]	10,[13],14	15,17,[18]	11,[12],[13]	
3e	[8],9,[10],11	[12],[13],14	[13],14,16,[17]	17,18,[21],[24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2],[37]	[5],6,7,[8]	8,9,[11]
	15,[16],19	11			2	
RM2YYX	GlobalFiler™					
	11,[15.3],17.3	17,[22]	10,[13],14	15,17,[18]	11,[12],[13]	
3e	9,[10],11	[12],[13],14	[13],14,16,[17]	17,18,[21]	[8],12,14	10,11
	14,18	12,13	30	15,[16],17	X,[Y]	7,12
	20,[22],24			18,25.2,[28.2]	[5],6,7,[8]	8,9
	15,19	[11]			[2]	
RNA2TA	PowerPlex® Fusion 6C (STRMix)					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17	18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11	17	18		
RPAZAW	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
RRWCBN	GlobalFiler™					
	11,[15.3],[16],17.3	17,[22],[24]	10,[13],14	15,17,[18]	11,[12],[13]	
3e	8,9,10,11	[12],[13],14	[13],14,16,[17]	17,18,[21],[24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2],[37]	[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	11			2	
T2W896	Identifiler® Plus					
		17,22,24		15,17,18	11,12,13	
3e	8,9,10,11	12,13,14			8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2		X,Y	7,10,12
	18,20,22,24				5,6,7,8	8,9,11
	14,15,16,19					
T3T26U	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				

TABLE 1

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

## Item 3e - STR Results

T7PHPB	PowerPlex® Fusion					
	11,[15.3],[16],17.3	17,[22],[24]	10,[13],14	15,17,[18]	11,[12],[13]	
3e	[8],9,[10],11	[12],[13],14	[13],14,16,[17]	17,18,[21],[24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
	[18],20,[22],24	8,[9],12	13,17		[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	[11]				
TW2DB4	GlobalFiler™					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2	
TXJNMV	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
U2UZWG	PowerPlex® Fusion 6C (STRmix)					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17	18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11	17	18		
UFFFZG	PowerPlex® Fusion 6C (STRmix)					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17	18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11	17	18		
UFRM9Y	Identifiler®, Investigator® 24plex QS					
	11,[15.3],[16],17.3	17,[22],[24]	10,[13],14	15,17,[18]	11,[12],[13]	N/A
3e	[8],9,[10],11	[12],[13],14	[13],14,16,[17]	17,18,[21],[24]	[8],12,[13],14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
	[18],20,[22],24	N/A	N/A	18,25.2,[28.2],[37]	[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	11	N/A	N/A	N/A	
UQBVG6	GlobalFiler™					
	11,[15.3,16],17.3	17,[22,24]	10,[13],14	15,17,[18]	11,[12,13]	
3e	[8],9,[10],11	[12],14	[13],14,16,[17]	17,18,[21,24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2,37]	[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	[11]			[2]	

TABLE 1

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

## Item 3e - STR Results

UYNTEP	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
VHJLYM	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	---
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17	---	5,6,7,8	8,9,11
	14,15,16,19	11	---	---	---	
VJAM6B	GlobalFiler™					
	11,[15.3],[16],17.3	17,22,24	10,[13],14	15,17,18	11,[12],[13]	
3e	[8],9,[10],11	[12],[13],14	[13],14,16,[17]	17,18,[21],[24]	[8],12,14	10,11,[12]
	12,14,15,18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,10,12
	[18],20,[22],24			18,25.2,[28.2],[37]	[5],6,7,[8]	8,9,11
	[14],15,[16],19	11			2	
VJMZ78	PowerPlex® Fusion 5C					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
VK7JDZ	Identifiler® Plus					
	-	17,22,24	-	15,17,18	11,12,13	-
3e	8,9,10,11	12,13,14	-	-	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	-	X,Y	7,10,12
	18,20,22,24	-	-	-	5,6,7,8	8,9,11
	14,15,16,19	-	-	-	-	
W2PF7J	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
W8CPGW	Identifiler®, Investigator® 24plex QS					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	N/A
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	N/A	N/A	18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11	N/A	N/A	N/A	



TABLE 1

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

## Item 3e - STR Results

WCLJBD	Identifiler® Plus					
		17,22,24		15,17,18	11,12,13	
3e	8,9,10,11	12,13,14			8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2		X,Y	7,10,12
	18,20,22,24				5,6,7,8	8,9,11
	14,15,16,19					
WDJWWK	PowerPlex® 5C					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
WHBKC8	PowerPlex® 5C					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
WKG6Z8	PowerPlex® Fusion 5C					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
WKXU97	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
X4BGPD	Identifiler® Plus					
		17,22,24		15,17,18	11,12,13	
3e	8,9,10,11	12,14			8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2		X,Y	7,10,12
	18,20,22,24				5,6,7,8	8,9,11
	14,15,16,19					
X4MXHY	GlobalFiler™					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
3e	8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2	

TABLE 1

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

## Item 3e - STR Results

XAYARZ	GlobalFiler™					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
	3e 8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24			18,25.2,28.2,37	5,6,7,8	8,9,11
	14,15,16,19	11			2	
XGD6NT	GlobalFiler™					
	11,[15.3,16],17.3	17,[22,24]	10,14	15,17,[18]	11,[12,13]	
	3e [8],9,[10],11	[12,13],14	[13],14,16,[17]	17,18,[21,24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2]	[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	[11]		[2]		
XKJFTA	PowerPlex® 21 (STRmix)					
	11,15.3,16,17.3	17,22,24		15,17,18	11,12,13	13,15,16,19
	3e 8,9,10,11	12,13,14		17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2		X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19					
XKVU2Y	PowerPlex® Fusion					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
	3e 8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
XYD6KZ	GlobalFiler™					
	11,[15.3,16],17.3	17,[22,24]	10,[13],14	15,17,[18]	11,[12,13]	
	3e [8],9,[10],11	[12,13],14	[13],14,16,[17]	17,18,[21,24]	[8],12,14	10,11,[12]
	[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2,37]	[5],6,7,[8]	8,9,[11]
	[14],15,[16],19	11		2		
Y792QW	PowerPlex® Fusion 5C					
	11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13	
	3e 8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	8,12,14	10,11,12
	12,14,15,18	12,13,16	30,32.2	15,16,17	X,Y	7,10,12
	18,20,22,24	8,9,12	13,17		5,6,7,8	8,9,11
	14,15,16,19	11				
YKQBQL	GlobalFiler™					
	11,[15.3],[16],17.3	17,22,24	10,13,14	15,17,[18]	11,[12],[13]	
	3e [8],9,[10],11	12,13,14	[13],14,16,[17]	17,18,[21],[24]	8,12,14	10,11,[12]
	[12],14,[15],18	12,13,16	30,[32.2]	15,16,17	X,[Y]	7,[10],12
	[18],20,[22],24			18,25.2,[28.2],[37]	[5],6,7,[8]	8,9,11
	[14],15,[16],19	[11]		[2]		

TABLE 1

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

## Item 3e - STR Results

YMGCWA	Identifiler® Plus					
		17,17		15,17	11,11	
3e		9,11	14,14		12,14	10,11
		14,18	12,13	30,30	X,X	7,12
		20,24			6,7	8,9
		15,19				
ZD4YZX	GlobalFiler™					
		11,[16],17.3	17,[22,24]	10,[13],14	15,17,[18]	11,[12,13]
3e		9,[10],11	[12],14	[13],14,16,[17]	17,18,[21,24]	10,11,[12]
		[12],14,[15],18	12,13	30,[32.2]	15,[16],17	7,[10],12
		[18],20,[22],24			18,25.2,[28.2,37]	8,9,[11]
		15,19	[11]		[2]	
ZKRCAY	GlobalFiler™					
		11,[15.3],[16],17.3	17,[22],[24]	10,[13],14	15,17,[18]	11,[12],[13]
3e		[8],9,[10],11	[12],14	[13],14,16,[17]	17,18,[21],[24]	10,11
		[12],14,[15],18	12,13,[16]	30,[32.2]	15,[16],17	7,[10],12
		[18],20,[22],24			18,25.2,[28.2],[37]	8,9,[11]
		[14],15,[16],19	11		2	
ZL2CCK	GlobalFiler™					
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13
3e		8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	10,11,12
		12,14,15,18	12,13,16	30,32.2	15,16,17	7,10,12
		18,20,22,24			18,25.2,28.2,37	8,9,11
		14,15,16,19	11		2	
ZP32F9	GlobalFiler™					
		11,[15.3],17.3	17,[24]	10,[13],14	15,17,[18]	11,[13]
3e		9,11	[12],14	14,16	17,18	10,11
		[12],14,18	12,13	30,30	15,[16],17	7,12
		[18],20,[22],24			18,25.2	8,9
		15,19	11		2	
ZQFAJ8	GlobalFiler™					
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13
3e		8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	10,11,12
		12,14,15,18	12,13,16	30,32.2	15,16,17	7,10,12
		18,20,22,24			18,25.2,28.2,37	8,9,11
		14,15,16,19	11		2	
ZWGHW2	GlobalFiler™					
		11,15.3,16,17.3	17,22,24	10,13,14	15,17,18	11,12,13
3e		8,9,10,11	12,13,14	13,14,16,17	17,18,21,24	10,11,12
		12,14,15,18	12,13,16	30,32.2	15,16,17	7,10,12
		18,20,22,24			18,25.2,28.2,37	8,9,11
		14,15,16,19	11		2	

TABLE 1

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

## Item 3sp - STR Results

2D7UBG	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
2ETJ7U	Investigator® 24plex					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11				
2XNKBR	Identifiler® Plus					
		22,24		17,18	12,13	
3sp	8,10	12,13			8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22				5,8	8,11
	14,16					
3G2WMV	Investigator® 24plex					
	15.3,16	[17],22,24	13,14	17,18	[11],12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11				
3JMPRB	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
3NUYHY	GlobalFiler™, Fusion (Genemapper ID-x)					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
3QNX46	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	

TABLE 1

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

## Item 3sp - STR Results

3RF2M6	PowerPlex® 21 (STRmix)					
	15.3,16	22,24		17,18	12,13	13,16
3sp	8,10	12,13		21,24	8,12	11,12
	12,15	13,16	30,32.2			10,12
	18,22	9,12	13,17		5,8	8,11
	14,16					
3UANHG	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
3WA4LX	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
4AVA2T	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
4PQZEV	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
4Z8QUR	Investigator® 24plex QS					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11				
4ZQ3K8	PowerPlex® 21					
	15.3,16	22,24		17,18	12,13	13,16
3sp	8,10	12,13		21,24	8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16					

TABLE 1

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

64LWWK	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
64ZELJ	PowerPlex® Fusion 5C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
6ANVFW	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	NT
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	NT	NT	28.2,37	5,8	8,11
	14,16	11	NT	NT	2		
6DV7HR	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
6EGLEZ	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
6PN2MU	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
7DNKYG	Investigator® 24plex						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11					

TABLE 1

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

7FUFUZ	PowerPlex® Fusion 5C					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
7PGCXM	Identifiler®, Investigator® 24plex QS					
	15.3,16	22,24	13,14	17,18	12,13	N/A
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	N/A	N/A	28.2,37	5,8	8,11
	14,16	11	N/A	N/A	N/A	
7Z29TY	PowerPlex® Fusion 6C (STRmix)					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
8D8PDA	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
8JNWJZ	GlobalFiler™					
	15.3,16,(17.3)	(17),22,24	13,14	17,18	12,13	
3sp	8,10	12,13,(14)	13,17	21,(23),24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	(10),11			2	
8NLU8C	PowerPlex® Fusion 5C					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
8UC8AZ	PowerPlex® Fusion 6C					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		

TABLE 1

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

## Item 3sp - STR Results

8ZCFLU	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
98U8BY	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
9DHV4J	PowerPlex® ESI 16 FAST					
	15.3,16	22,24	13,14	17,18		
3sp		12,13	13,17	21,24		11,12
	12,15	13,16	30,32.2	16,17	X,Y	
	18,22				5,8	
	14,16					
9FN79Y	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
9HUMMH	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
9HVN7V	PowerPlex® Fusion 6C (STRmix)					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
9TQ2XE	Investigator® 24plex					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11				



TABLE 1

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

9ZB63W	PowerPlex® 5C					
		15.3,16	22,24	13,14	17,18	12,13
3sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	9,12	13,17		5,8
		14,16	11			8,11
A4MC3F	PowerPlex® 5C					
		15.3,16	22,24	13,14	17,18	12,13
3sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	9,12	13,17		5,8
		14,16	11			8,11
A923D2	PowerPlex® Fusion 6C (STRmix)					
		15.3,16	22,24	13,14	17,18	12,13
3sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	9,12	13,17	28.2,37	5,8
		14,16	11	17	18	8,11
AH9R6E	PowerPlex® Fusion 5C					
		15.3,16	22,24	13,14	17,18	12,13
3sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	9,12	13,17		5,8
		14,16	11			8,11
AW8LN2	PowerPlex® Fusion 6C (STRmix)					
		15.3,16	22,24	13,14	17,18	12,13
3sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	9,12	13,17	28.2,37	5,8
		14,16	11	17	18	8,11
BR789N	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
3sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22			28.2,37	5,8
		14,16	11			8,11
						2
BUZGWX	Identifiler® Plus					
			22,24		17,18	12,13
3sp		8,10	12,13			8,12
		12,15	13,16	30,32.2		X,Y
		18,22				5,8
		14,16				8,11

TABLE 1

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

BYQZR2	PowerPlex® Fusion 6C (STRmix)					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
CL39PC	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
CL6YVU	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
D74J97	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
D8H7KT	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
DHLLQ	PowerPlex® Fusion 6C (STRmix)					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
DHTU4Q	PowerPlex® Fusion 5C					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				

TABLE 1

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

## Item 3sp - STR Results

EF4CEX	PowerPlex® 21					
	15,3,16	22,24		17,18	12,13	13,16
3sp	8,10	12,13		21,24	8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16					
EMQJDB	PowerPlex® Fusion					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
EX9283	PowerPlex® Fusion					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
FB8FFB	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
FDVZB8	PowerPlex® Fusion					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
FF4X2H	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
FPQWRM	PowerPlex® Fusion 6C (STRmix)					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		

TABLE 1

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

G2VBVC	Identifiler® Plus					
		22,24		17,18	12,13	
3sp	8,10	12,13			8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22				5,8	8,11
	14,16					
G6FGUT	PowerPlex® 21 (STRmix)					
	15.3,16	22,24		17,18	12,13	13,16
3sp	8,10	12,13		21,24	8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16					
GCXZ3U	PowerPlex® Fusion 6C (STRmix)					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
GG9KWG	Investigator® 24plex QS					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11				
GNAWTD	Identifiler® Plus					
	-	22,24	-	17,18	12,13	-
3sp	8,10	12,13	-	-	8,12	11,12
	12,15	13,16	30,32.2	-	X,Y	10,12
	18,22	-	-	-	5,8	8,11
	14,16	-	-	-	-	
GXDRBH	PowerPlex® Fusion 6C					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
H7M86G	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	

TABLE 1

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

## Item 3sp - STR Results

HCQEKJ	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
HLJUMP	PowerPlex® Fusion 5C					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
HLZJXA	PowerPlex® Fusion 5C					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
HRQ6T3	PowerPlex® Fusion 5C					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
HXUZKP	PowerPlex® PPFusion, GlobalFiler™					
3sp						
JAY3FR	GlobalFiler™					
	16,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
JHF383	PowerPlex® Fusion					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				

TABLE 1

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

## Item 3sp - STR Results

JHHPLV	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
JNJXYP	PowerPlex® 21, ESX-17						
		15.3,16	22,24	13,14	17,18	12,13	13,16
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
		14,16					
KETPZJ	PowerPlex® Fusion 6C (STRmix)						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
		14,16	11	17	18		
KHV3NR	PowerPlex® 21						
		15.3,16	22,24		17,18	12,13	13,16
	3sp	8,10	12,13		21,24	8,12	11,12
		12,15	13,16	30,32.2		X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
		14,16					
KKF9NE	GlobalFiler™ (TrueAllele)						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
KNDVEH	PowerPlex® 21						
		15.3,16	22,24		17,18	12,13	13,16
	3sp	8,10	12,13		21,24	8,12	11,12
		12,15	13,16	30,32.2		X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
		14,16					
KPUDRG	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	

TABLE 1

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

## Item 3sp - STR Results

KUJWMJ	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
KYXHN4	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
L6MHGP	GlobalFiler™ (STRmix)						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
L7BD6D	PowerPlex® Fusion 6C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18			
LHP8HQ	PowerPlex® 21						
		15.3,16	22,24		17,18	12,13	13,16
	3sp	8,10	12,13		21,24	8,12	11,12
		12,15	13,16	30,32.2		X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16						
LVUQVC	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
LXK2Z6	Investigator® 24plex						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11					

TABLE 1

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

LYYK8G	PowerPlex® Fusion 6C (STRmix)						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
		14,16	11	17	18		
LZ3LLK	PowerPlex® 21						
		15.3,16	22,24		17,18	12,13	13,16
	3sp	8,10	12,13		21,24	8,12	11,12
		12,15	13,16	30,32.2		X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
		14,16					
M4NG9C	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
MCVR9A	GlobalFiler™ (STRmix)						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
ME4D64	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
MPMR97	PowerPlex® Fusion 5C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
		14,16	11				
MQEZZM	PowerPlex® Fusion 6C (STRmix)						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
		14,16	11	17	18		



TABLE 1

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

MRD29Y	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13,14	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
MRPPGD	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
N2AJ9Z	Investigator® 24plex					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11				
N4G7Y7	Identifiler® Plus					
		22,24		17,18	12,13	
3sp	8,10	12,13			8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22				5,8	8,11
	14,16					
N69U4Z	Investigator® 24plex					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	INC (16)	11				
N8WXNE	PowerPlex® 21					
	15.3,16	22,24		17,18	12,13	13,16
3sp	8,10	12,13		21,24	8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16					
N8ZK38	Identifiler® Plus					
	-	22,24	-	17,18	12,13	-
3sp	8,10	12,13	-	-	8,12	11,12
	12,15	13,16	30,32.2	-	X,Y	10,12
	18,22	-	-	-	5,8	8,11
	14,16	-	-	-	-	

TABLE 1

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

N9GVFY	PowerPlex® Fusion 5C					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
NBGBJF	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28,2,37	5,8	8,11
	14,16	11			2	
NEKTXB	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28,2,37	5,8	8,11
	14,16	11			2	
NFAMN8	Identifiler® Plus					
		22,24		17,18	12,13	
3sp	8,10	12,13			8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22				5,8	8,11
	14,16					
PGJHYJ	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28,2,37	5,8	8,11
	14,16	11			2	
PN3GYB	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28,2,37	5,8	8,11
	14,16	11			2	
QDZJQ2	Identifiler® Plus					
		22,24		17,18	12,13	
3sp	8,10	12,13			8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22				5,8	8,11
	14,16					

TABLE 1

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

QF4RZY	PowerPlex® Fusion 5C					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
QJ4VU7	Investigator® 24plex					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11				
QQJRHD	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
QRHTQQ	PowerPlex® Fusion 5C					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
QRVD9E	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
QU9R6N	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
R3VTKK	PowerPlex® 21					
	15.3,16	22,24		17,18	12,13	13,16
3sp	8,10	12,13		21,24	8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16					

TABLE 1

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

RGWTR9	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
RM2YYX	GlobalFiler™					
	15.3,16	22,24	13,14	[15],17,18	12,13	
3sp	8,[9],10	12,13,[14]	13,[16],17	[17],[18],21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			[25.2],28.2,37	5,8	8,11
	14,16	11			2	
RNA2TA	PowerPlex® Fusion 6C (STRMix)					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
RPAZAW	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
RRWCBN	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
T2W896	Identifiler® Plus					
3sp						
T3T26U	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				

TABLE 1

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

## Item 3sp - STR Results

T7PHPB	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
TW2DB4	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
TXJNMV	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
U2UZWG	PowerPlex® Fusion 6C (STRmix)						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18			
UFFFZG	PowerPlex® Fusion 6C (STRmix)						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18			
UFRM9Y	Identifiler®, Investigator® 24plex QS						
		15.3,16	22,24	13,14	17,18	12,13	N/A
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	N/A	N/A	28.2,37	5,8	8,11
	14,16	11	N/A	N/A	N/A		
UQBVG6	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,[16],17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		

TABLE 1

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

UYNTEP	PowerPlex® Fusion					
		15.3,16	22,24	13,14	17,18	12,13
	3sp	8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	9,12	13,17		5,8
	14,16	11				
VHJLYM	PowerPlex® Fusion					
		15.3,16	22,24	13,14	17,18	12,13
	3sp	8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	9,12	13,17		5,8
	14,16	11				
VJAM6B	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
	3sp	8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22			28.2,37	5,8
	14,16	11			2	
VJMZ78	PowerPlex® Fusion 5C					
		15.3,16	22,24	13,14	17,18	12,13
	3sp	8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	9,12	13,17		5,8
	14,16	11				
VK7JDZ	Identifiler® Plus					
		-	22,24	-	17,18	12,13
	3sp	8,10	12,13	-	-	8,12
		12,15	13,16	30,32.2	-	X,Y
		18,22	-	-	-	5,8
	14,16	-	-	-	-	
W2PF7J	PowerPlex® Fusion					
		15.3,16	22,24	13,14	17,18	12,13
	3sp	8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	9,12	13,17		5,8
	14,16	11				
W8CPGW	Identifiler®, Investigator® 24plex QS					
		15.3,16	22,24	13,14	17,18	12,13
	3sp	8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	N/A	N/A	28.2,37	5,8
	14,16	11	N/A	N/A	N/A	

TABLE 1

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

## Item 3sp - STR Results

WCLJBD	Identifiler® Plus					
		22,24		17,18	12,13	
3sp	8,10	12,13			8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22				5,8	8,11
	14,16					
WDJWWK	PowerPlex® 5C					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
WHBKC8	PowerPlex® 5C					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
WKG6Z8	PowerPlex® Fusion 5C					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
WKXU97	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
X4BGPD	Identifiler® Plus					
		22,24		17,18	12,13	
3sp	8,10	12,13,14			8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22				5,8	8,11
	14,16					
X4MXHY	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
3sp	8,10	12,13,14	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	

TABLE 1

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

## Item 3sp - STR Results

XAYARZ	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
XGD6NT	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
XKJFTA	PowerPlex® 21 (STRmix)						
		15.3,16	22,24		17,18	12,13	13,16
	3sp	8,10	12,13		21,24	8,12	11,12
		12,15	13,16	30,32.2		X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16						
XKVU2Y	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
XYD6KZ	GlobalFiler™						
		[11],15.3,16,[17.3]	17,22,24	[10],13,14	[15],17,[18]	11,12,13	
	3sp	8,[9],10,[11]	[12],13,14	13,[14,16],17	[17,18],21,24	8,12,[14]	[10],11,[12]
		12,[14],15,[18]	[12],13,16	30,[32.2]	[15],16,17	X,[Y]	[7],10,12
		18,[20],22,[24]			18,25.2,28.2,37	5,6,[7],8	8,[9],11
	14,15,16,19	11			2		
Y792QW	PowerPlex® Fusion 5C						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
YKQBQL	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	3sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		



TABLE 1

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

## Item 3sp - STR Results

YMGCWA	Identifiler® Plus					
		22,24		17,18	12,13	
3sp		8,10	12,13		8,12	11,12
		12,15	13,16	30,32.2	X,Y	10,12
		18,22			5,8	8,11
		14,16				
ZD4YZX	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
3sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22		28.2,37	5,8	8,11
		14,16	11		2	
ZKRCAY	GlobalFiler™					
		[11],15.3,16,[17.3]	17,22,24	[10],13,14	[15],17,[18]	11,12,13
3sp		8,[9],10,[11]	12,13,14	13,[14],[16],17	[17],[18],21,24	8,12,[14]
		12,[14],15,[18]	[12],13,16	30,[32.2]	[15],16,17	X,[Y]
		18,[20],22,[24]		[18],[25.2],28.2,37	5,[6],[7],8	[7],10,12
		14,[15],16,[19]	11		2	8,[9],11
ZL2CCK	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
3sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22		28.2,37	5,8	8,11
		14,16	11		2	
ZP32F9	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
3sp		8,10	12,13	13,17	21,[23],24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22		28.2,37	5,8	8,11
		14,16	11		2	
ZQFAJ8	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
3sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22		28.2,37	5,8	8,11
		14,16	11		2	
ZWGHW2	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
3sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22		28.2,37	5,8	8,11
		14,16	11		2	

TABLE 1

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

## Item 4 - STR Results

2D7UBG	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
2ETJ7U	Investigator® 24plex					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10				
2XNKBR	Identifiler® Plus					
		18,22		16,19	12	
4	11,13	12,13			8,10	12
	12,18	14	29,32.2		X,Y	10,12
	22				8,9	8,12
	14,18					
3G2WMV	Investigator® 24plex					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10				
3JMPRB	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
3NUYHY	GlobalFiler™, Fusion (Genemapper ID-x)					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
3QNX46	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	

TABLE 1

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

## Item 4 - STR Results

3RF2M6	PowerPlex® 21					
	12,16.3	18,22		16,19	12,12	11,12
4	11,13	12,13		17.3,21	8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18					
3UANHG	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
3WA4LX	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
4AVA2T	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
4PQZEV	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
4ZQ3K8	PowerPlex® 21					
	12,16.3	18,22		16,19	12,12	11,12
4	11,13	12,13		17.3,21	8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18					
64LWWK	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				

TABLE 1

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

## Item 4 - STR Results

64ZELJ	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				
6ANVFW	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	NT
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	NT	NT	25.2,29.2	8,9	8,12
	14,18	10	NT	NT	2	
6CFLD4	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
6DV7HR	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
6EGLEZ	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				
6PN2MU	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
7DNKYG	Investigator® 24plex					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10				

TABLE 1

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

## Item 4 - STR Results

7DNXV6	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
7FUFUZ	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				
7PGCXM	Identifiler®, Investigator® 24plex QS					
	12,16.3	18,22	14,15	16,19	12,12	N/A
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	N/A	N/A	25.2,29.2	8,9	8,12
	14,18	10	N/A	N/A	N/A	
7Z29TY	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
8A2XTU	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
8D8PDA	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
8JNWJZ	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	

TABLE 1

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

## Item 4 - STR Results

8NLU8C	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
8UC8AZ	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
8ZCFLU	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
98U8BY	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
9DHV4J	PowerPlex® ESI 16 FAST					
	12,16.3	18,22	14,15	16,19		
4		12,13	15,15	17.3,21		12,12
	12,18	14,14	29,32.2	16,16	X,Y	
	22,22				8,9	
	14,18					
9FN79Y	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
9HUMMH	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				

TABLE 1

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

## Item 4 - STR Results

9HVN7V	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
9TQ2XE	Investigator® 24plex					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10				
9ZB63W	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
A4MC3F	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				
A923D2	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
AH9R6E	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				
AW8LN2	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		

TABLE 1

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

## Item 4 - STR Results

BMH992	GlobalFiler™, MiniFiler					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
BR789N	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
BUZGWX	Identifiler® Plus					
		18,22		16,19	12,12	
4	11,13	12,13			8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22				8,9	8,12
	14,18					
BYQZR2	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
CL39PC	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
CL6YVU	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
D74J97	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				



TABLE 1

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

## Item 4 - STR Results

D8H7KT	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
DHLLQ	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
DHTU4Q	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
EF4CEX	PowerPlex® 21					
	12,16.3	18,22		16,19	12,12	11,12
4	11,13	12,13		17.3,21	8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18					
EMQJDB	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
EX9283	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
FB8FFB	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	

TABLE 1

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

## Item 4 - STR Results

FDVZB8	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
FF4X2H	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
FPQWRM	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
G2VBVC	Identifiler® Plus					
		18,22		16,19	12	
4	11,13	12,13			8,10	12
	12,18	14	29,32.2		X,Y	10,12
	22				8,9	8,12
	14,18					
G6FGUT	PowerPlex® 21 (STRmix)					
	12,16.3	18,22		16,19	12,12	11,12
4	11,13	12,13		17.3,21	8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18					
GCXZ3U	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
GG9KWG	Investigator® 24plex QS					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10				

TABLE 1

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

## Item 4 - STR Results

GNAWTD	Identifiler® Plus					
	-	18,22	-	16,19	12	-
4	11,13	12,13	-	-	8,10	12
	12,18	14	29,32.2	-	X,Y	10,12
	22	-	-	-	8,9	8,12
	14,18	-	-	-	-	-
GXDRBH	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
H7M86G	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
HCQEKJ	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
HLJUMP	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				
HLZJXA	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				
HRQ6T3	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				

TABLE 1

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

## Item 4 - STR Results

HXUZKP	PowerPlex® PPFusion, GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18					
HYNDXP	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
JAY3FR	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
JHF383	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
JHHPLV	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
JNJXYP	PowerPlex® 21, ESX-17					
	12,16.3	18,22	14,15	16,19	12	11,12
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18					
KETPZJ	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		

TABLE 1

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

## Item 4 - STR Results

KHV3NR	PowerPlex® 21					
	12,16.3	18,22		16,19	12,12	11,12
4	11,13	12,13		17.3,21	8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18					
KKF9NE	GlobalFiler™ (TrueAllele)					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
KNDVEH	PowerPlex® 21					
	12,16.3	18,22		16,19	12,12	11,12
4	11,13	12,13		17.3,21	8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18					
KPUDRG	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
KUJWMJ	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
KYXHN4	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
L6MHGP	GlobalFiler™ (STRmix)					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	

TABLE 1

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

## Item 4 - STR Results

L7BD6D	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
LHP8HQ	PowerPlex® 21					
	12,16.3	18,22		16,19	12,12	11,12
4	11,13	12,13		17.3,21	8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18					
LVUQVC	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
LXK2Z6	Investigator® 24plex					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10				
LYYK8G	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
LZ3LLK	PowerPlex® 21					
	12,16.3	18,22		16,19	12	11,12
4	11,13	12,13		17.3,21	8,10	12
	12,18	14	29,32.2		X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18					
M4NG9C	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	

TABLE 1

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

## Item 4 - STR Results

MCVR9A	GlobalFiler™ (STRmix)					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
ME4D64	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
MPPMR97	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				
MQEZZM	PowerPlex® Fusion 6C					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
MRD29Y	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
MRPPGD	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
N2AJ9Z	Investigator® 24plex					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10				

TABLE 1

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

## Item 4 - STR Results

N4G7Y7	Identifiler® Plus					
		18,22		16,19	12	
4	11,13	12,13			8,10	12
	12,18	14	29,32.2		X,Y	10,12
	22				8,9	8,12
	14,18					
N69U4Z	Investigator® 24plex					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10				
N8WXNE	PowerPlex® 21					
	12,16.3	18,22		16,19	12	11,12
4	11,13	12,13		17.3,21	8,10	12
	12,18	14	29,32.2		X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18					
N8ZK38	Identifiler® Plus					
	-	18,22	-	16,19	12	-
4	11,13	12,13	-	-	8,10	12
	12,18	14	29,32.2	-	X,Y	10,12
	22	-	-	-	8,9	8,12
	14,18	-	-	-	-	-
N9GVFY	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
NBGBJF	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
NEKTXB	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	



TABLE 1

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

## Item 4 - STR Results

NFAMN8	Identifiler® Plus					
		18,22		16,19	12	
4	11,13	12,13			8,10	12
	12,18	14	29,32.2		X,Y	10,12
	22				8,9	8,12
	14,18					
PGJHYJ	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
PN3GYB	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
PNZUKH	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	
QDZJQ2	Identifiler® Plus					
		18,22		16,19	12	
4	11,13	12,13			8,10	12
	12,18	14	29,32.2		X,Y	10,12
	22				8,9	8,12
	14,18					
QF4RZY	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				
QHUUZK	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	

TABLE 1

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

## Item 4 - STR Results

QJ4VU7

	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10				

QQJRHD GlobalFiler™

	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	

QRHTQQ PowerPlex® Fusion 5C

	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				

QRVD9E PowerPlex® Fusion

	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				

QU9R6N GlobalFiler™

	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	

R3VTKK PowerPlex® 21

	12,16.3	18,22		16,19	12,12	11,12
4	11,13	12,13		17.3,21	8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18					

RGWTR9 GlobalFiler™

	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	

TABLE 1

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

## Item 4 - STR Results

RM2YYX	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
RNA2TA	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17		
RPAZAW	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
RRWCBN	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
T3T26U	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
T7PHPB	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
TW2DB4	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	

TABLE 1

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

## Item 4 - STR Results

TXJNMV	PowerPlex® Fusion						
		12,16.3	18,22	14,15	16,19	12	
	4	11,13	12,13	15	17.3,21	8,10	12
		12,18	14	29,32.2	16	X,Y	10,12
		22	13	13,14		8,9	8,12
	14,18	10					
U2UZWG	PowerPlex® Fusion 6C						
		12,16.3	18,22	14,15	16,19	12	
	4	11,13	12,13	15	17.3,21	8,10	12
		12,18	14	29,32.2	16	X,Y	10,12
		22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17			
UFFFZG	PowerPlex® Fusion 6C						
		12,16.3	18,22	14,15	16,19	12	
	4	11,13	12,13	15	17.3,21	8,10	12
		12,18	14	29,32.2	16	X,Y	10,12
		22	13	13,14	25.2,29.2	8,9	8,12
	14,18	10	16	17			
UFRM9Y	Identifiler®, Investigator® 24plex QS						
		12,16.3	18,22	14,15	16,19	12,12	N/A
	4	11,13	12,13	15,15	17.3,21	8,10	12,12
		12,18	14,14	29,32.2	16,16	X,Y	10,12
		22,22	N/A	N/A	25.2,29.2	8,9	8,12
	14,18	10	N/A	N/A	N/A		
UQBVG6	GlobalFiler™						
		12,16.3	18,22	14,15	16,19	12	
	4	11,13	12,13	15	17.3,21	8,10	12
		12,18	14	29,32.2	16	X,Y	10,12
		22			25.2,29.2	8,9	8,12
	14,18	10			2		
UYNTEP	PowerPlex® Fusion						
		12,16.3	18,22	14,15	16,19	12	
	4	11,13	12,13	15	17.3,21	8,10	12
		12,18	14	29,32.2	16	X,Y	10,12
		22	13	13,14		8,9	8,12
	14,18	10					
VHJLYM	PowerPlex® Fusion						
		12,16.3	18,22	14,15	16,19	12	---
	4	11,13	12,13	15	17.3,21	8,10	12
		12,18	14	29,32.2	16	X,Y	10,12
		22	13	13,14	---	8,9	8,12
	14,18	10	---	---	---		

TABLE 1

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

## Item 4 - STR Results

VJAM6B	GlobalFiler™					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	
VJMZ78	PowerPlex® Fusion 5C					
	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				
VK7JDZ	Identifiler® Plus					
	-	18,22	-	16,19	12	-
4	11,13	12,13	-	-	8,10	12
	12,18	14	29,32.2	-	X,Y	10,12
	22	-	-	-	8,9	8,12
	14,18	-	-	-	-	
W2PF7J	PowerPlex® Fusion					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				
W8CPGW	Identifiler®, Investigator® 24plex QS					
	12,16.3	18,22	14,15	16,19	12,12	N/A
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	N/A	N/A	25.2,29.2	8,9	8,12
	14,18	10	N/A	N/A	N/A	
WCLJBD	Identifiler® Plus					
		18,22		16,19	12,12	
4	11,13	12,13			8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22				8,9	8,12
	14,18					
WDJWVK	PowerPlex® 5C					
	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				

TABLE 1

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

## Item 4 - STR Results

WHBK8

	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	10,12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				

WKG6Z8 PowerPlex® Fusion 5C

	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22	13,13	13,14		8,9	8,12
	14,18	10				

WKXU97 PowerPlex® Fusion

	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22	13	13,14		8,9	8,12
	14,18	10				

X4BGPD Identifiler® Plus

		18,22		16,19	12,12	
4	11,13	12,13			8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22				8,9	8,12
	14,18					

X4MXHY GlobalFiler™

	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	

XAYARZ GlobalFiler™

	12,16.3	18,22	14,15	16,19	12,12	
4	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10			2	

XGD6NT GlobalFiler™

	12,16.3	18,22	14,15	16,19	12	
4	11,13	12,13	15	17.3,21	8,10	12
	12,18	14	29,32.2	16	X,Y	10,12
	22			25.2,29.2	8,9	8,12
	14,18	10			2	

TABLE 1

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

## Item 4 - STR Results

XKJFTA	PowerPlex® 21						
		12,16.3	18,22		16,19	12,12	11,12
	4	11,13	12,13		17.3,21	8,10	12,12
		12,18	14,14	29,32.2		X,Y	10,12
		22,22	13,13	13,14		8,9	8,12
		14,18					
XKVU2Y	PowerPlex® Fusion						
		12,16.3	18,22	14,15	16,19	12	
	4	11,13	12,13	15	17.3,21	8,10	12
		12,18	14	29,32.2	16	X,Y	10,12
		22	13	13,14		8,9	8,12
		14,18	10				
XYD6KZ	GlobalFiler™						
		12,16.3	18,22	14,15	16,19	12	
	4	11,13	12,13	15	17.3,21	8,10	12
		12,18	14	29,32.2	16	X,Y	10,12
		22			25.2,29.2	8,9	8,12
		14,18	10			2	
Y792QW	PowerPlex® Fusion 5C						
		12,16.3	18,22	14,15	16,19	12	
	4	11,13	12,13	15	17.3,21	8,10	12
		12,18	14	29,32.2	16	X,Y	10,12
		22	13	13,14		8,9	8,12
		14,18	10				
YKQBQL	GlobalFiler™						
		12,16.3	18,22	14,15	16,19	12,12	
	4	11,13	12,13	15,15	17.3,21	8,10	12,12
		12,18	14,14	29,32.2	16,16	X,Y	10,12
		22,22			25.2,29.2	8,9	8,12
		14,18	10			2	
YLJP2C	GlobalFiler™						
		12,16.3	18,22	14,15	16,19	12,12	
	4	11,13	12,13	15,15	17.3,21	8,10	12,12
		12,18	14,14	29,32.2	16,16	X,Y	10,12
		22,22			25.2,29.2	8,9	8,12
		14,18	10			2	
YMGCWA	Identifiler® Plus						
			18,22		16,19	12,12	
	4	11,13	12,13			8,10	12,12
		12,18	14,14	29,32.2		X,Y	10,12
		22,22				8,9	8,12
		14,18					

TABLE 1

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

## Item 4 - STR Results

ZACFD8	NGM SElect					
		12,16.3	18,22	14,15	16,19	
4			12,13	15,15	17.3,21	12,12
		12,18	14,14	29,32.2	16,16	X,Y
		22,22		25.2,29.2	8,9	
		14,18				
ZD4YZX	GlobalFiler™					
		12,16.3	18,22	14,15	16,19	12
4		11,13	12,13	15	17.3,21	8,10 12
		12,18	14	29,32.2	16	X,Y 10,12
		22		25.2,29.2	8,9	8,12
		14,18	10		2	
ZKRCAY	GlobalFiler™					
		12,16.3	18,22	14,15	16,19	12
4		11,13	12,13	15	17.3,21	8,10 12
		12,18	14	29,32.2	16	X,Y 10,12
		22		25.2,29.2	8,9	8,12
		14,18	10		2	
ZL2CCK	GlobalFiler™					
		12,16.3	18,22	14,15	16,19	12,12
4		11,13	12,13	15,15	17.3,21	8,10 12,12
		12,18	14,14	29,32.2	16,16	X,Y 10,12
		22,22		25.2,29.2	8,9	8,12
		14,18	10		2	
ZP32F9	GlobalFiler™					
		12,16.3	18,22	14,15	16,19	12,12
4		11,13	12,13	15,15	17.3,21	8,10 12,12
		12,18	14,14	29,32.2	16,16	X,Y 10,12
		22,22		25.2,29.2	8,9	8,12
		14,18	10		2	
ZQFAJ8	GlobalFiler™					
		12,16.3	18,22	14,15	16,19	12
4		11,13	12,13	15	17.3,21	8,10 12
		12,18	14	29,32.2	16	X,Y 10,12
		22		25.2,29.2	8,9	8,12
		14,18	10		2	
ZWGHW2	GlobalFiler™					
		12,16.3	18,22	14,15	16,19	12
4		11,13	12,13	15	17.3,21	8,10 12
		12,18	14	29,32.2	16	X,Y 10,12
		22		25.2,29.2	8,9	8,12
		14,18	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 4e - STR Results

4Z8QUR	Investigator® 24plex QS					
	12,16.3	18,22	14,15	16,19	12,12	
4e	11,13	12,13	15,15	17.3,21	8,10	12,12
	12,18	14,14	29,32.2	16,16	X,Y	10,12
	22,22			25.2,29.2	8,9	8,12
	14,18	10				
T2W896	Identifiler® Plus					
		12,18		16,19	12,12	
4e	11,13	12,13			8,10	12,12
	12,18	14,14	29,32.2		X,Y	10,12
	22,22				8,9	8,12
	14,18					

TABLE 1

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

Item 4sp - STR Results

4Z8QUR Investigator® 24plex QS

4sp	[15]	17.3,21	[12]
		[16]	
	[22]		[8]

T2W896 Identifiler® Plus

4sp			

# YSTR Amplification Kit(s) & Results

TABLE 2

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

Item 1 - YSTR Results

6PN2MU	Yfiler™ Plus								
1	[REDACTED]								
7PGCXM	Yfiler™								
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
G2VBVC	Yfiler™								
	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-
H7M86G	Yfiler™ Plus								
1	[REDACTED]								
KNDVEH	PowerPlex® Y 23								
1	[REDACTED]								
NBGBJF	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
1	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
QQJRHD	Yfiler™ Plus								
	NA	NA	NA	NA	NA	NA	NA	NA	NA
1	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA
XAYARZ	Yfiler™ Plus								
	NA	NA	NA	NA	NA	NA	NA	NA	NA
1	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
2ETJ7U	Yfiler™									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18			13
							20			
2XNKBR	Yfiler™									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18			13
							20			
3JMPRB	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20			13
3QNX46	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20			13
3RF2M6	Yfiler™									
		14	18,19	14	31	24	10	11	13	
2	14	10	NR	20		15	18			
							20			NR
3WA4LX	PowerPlex® Y PPY23									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18			22
		11	13	16	17		20	12		13
3X86UB	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20			13
4PQZEV	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20			13
4Z8QUR	Yfiler™									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18			
							20			13
4ZQ3K8	PowerPlex® Y 23									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18			22
		11	13	16	17		20	12		13
6ANVFW	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11	NT	16	17	22	20	NT		13
6CFLD4	PowerPlex® Y 23									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18			22
		11	13	16	17		20	12		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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
6DV7HR	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20		13	
6PN2MU	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20		13	
7DNXV6	PowerPlex® Y 23									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18		22	
		11	13	16	17		20	12	13	
7PGCXM	Yfiler™									
	N/A	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	N/A	15	18	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	20	N/A	13	
8A2XTU	Yfiler™									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18			
							20		13	
8ZCFLU	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20		13	
98U8BY	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20		13	
9ZB63W	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20		13	
BMH992	Yfiler™									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18			
							20		13	
BR789N	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20		13	
BUZGWX	PowerPlex® Y 23									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18		22	
		11	13	16	17		20	12	13	
CL6YVU	Yfiler™									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18			
							20		13	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
D74J97	Yfiler™									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18			
							20			13
DHTU4Q	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20			13
EF4CEX	PowerPlex® Y 23									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18		22	
		11	13	16	17		20	12		13
FB8FFB	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20			13
FF4X2H	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20			13
G2VBVC	Yfiler™									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18			
							20			13
GNAWTD	Yfiler™									
	-	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	-	15	18	-	-	
	-	-	-	-	-	-	20	-	-	13
H7M86G	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20			13
HCQEKJ	Yfiler™									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18			
							20			13
HLZJXA	PowerPlex® Y 23									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18		22	
		11	13	16	17		20	12		13
HXUZKP	PowerPlex® Y 23									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18		22	
		11	13	16	17		20	12		13
HYMW2W	Yfiler™									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18			
							20			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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 2 - YSTR Results

HYNDXP	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	2	14	10	12	20	15	18		22
		11	13	16	17		20	12	13
JNJXYP	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	2	14	10	12	20	15	18		22
		11	13	16	17		20	12	13
KHV3NR	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	2	14	10	12	20	15	18		22
		11	13	16	17		20	12	13
KKF9NE	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
	2	14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
KNDVEH	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	2	14	10	12	20	15	18		22
		11	13	16	17		20	12	13
KPUDRG	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	2	14	10	12	20	15	18		22
		11	13	16	17		20	12	13
KUJWMJ	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
	2	14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
LHP8HQ	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	2	14	10	12	20	15	18		22
		11	13	16	17		20	12	13
LVUQVC	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
	2	14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
LZ3LLK	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	2	14	10	12	20	15	18		22
		11	13	16	17		20	12	13
M4NG9C	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	2	14	10	12	20	15	18		22
		11	13	16	17		20	12	13
ME4D64	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
	2	14	10	12	20	35	15	18	12
	38	11		16	17	22	20		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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 2 - YSTR Results

MPMR97	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	2	14	10	12	20	15	18		22
		11	13	16	17		20	12	13
MRPPGD	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
	2	14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
N4G7Y7	Yfiler™								
		14	18,19	14	31	24	10	11	13
	2	14	10	12	20	15	18		
						20			13
N8WXNE	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	2	14	10	12	20	15	18		22
		11	13	16	17		20	12	13
N8ZK38	Yfiler™								
	-	14	18,19	14	31	24	10	11	13
	2	14	10	12	20	-	15	18	-
	-	-	-	-	-	-	20	-	13
NBGBJF	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
	2	14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
NEKTXB	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
	2	14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
NFAMN8	Yfiler™								
		14	18,19	14	31	24	10	11	13
	2	14	10	12	20	15	18		
						20			13
PGJHYJ	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
	2	14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
PNZUKH	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	2	14	10	12	20	15	18		22
		11	13	16	17		20	12	13
QF4RZY	PowerPlex® Y Y23								
		14	18,19	14	31	24	10	11	13
	2	14	10	12	20	15	18		22
		11	13	16	17		20	12	13
QQJRHD	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
	2	14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13



TABLE 2

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

## Item 2 - YSTR Results

QRHTQQ	Yfiler™								
		14	18,19	14	31	24	10	11	13
2		14	10	12	20	15	18		
							20		13
QRVD9E	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
2		14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
QU9R6N	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
2		14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
R3VTKK	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
2		14	10	12	20	15	18		22
		11	13	16	17		20	12	13
RGWTR9	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
2		14	10	12	20	15	18		22
		11	13	16	17		20	12	13
RM2YYX	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
2		14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
T7PHPB	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
2		14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
UFRM9Y	Yfiler™								
	N/A	14	18,19	14	31	24	10	11	13
2		14	10	12	20	N/A	15	18	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	20	N/A	13
UQBVG6	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
2		14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
UYNTEP	Yfiler™								
		14	18,19	14	31	24	10	11	13
2		14	10	12	20	15	18		
							20		13
VK7JDZ	Yfiler™								
	-	14	18,19	14	31	24	10	11	13
2		14	10	12	20	-	15	18	-
	-	-	-	-	-	-	20	-	13
W8CPGW	Yfiler™								
	N/A	14	18,19	14	31	24	10	11	13
2		14	10	12	20	N/A	15	18	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	20	N/A	13

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
WCLJBD	PowerPlex® Y 23									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18		22	
		11	13	16	17		20	12	13	
WKXU97	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20		13	
X4BGPD	PowerPlex® Y 23									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18		22	
		11	13	16	17		20	12	13	
XAYARZ	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20		13	
XGD6NT	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20		13	
XKVU2Y	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20		13	
XYD6KZ	Yfiler™									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18		22	
							20		13	
Y792QW	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
2	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20		13	
YLJP2C	PowerPlex® Y 23									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18		22	
		11	13	16	17		20	12	13	
ZD4YZX	Yfiler™ Plus									
	16	12	18	14	31	20	13	15	14	
2	10	11	20	38	14	17	22	18,19	35	
	13	12	22	34,37	11		10		24	
ZKRCAY	Yfiler™									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18		22	
							20		13	
ZQFAJ8	Yfiler™									
		14	18,19	14	31	24	10	11	13	
2	14	10	12	20		15	18		22	
							20		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

ZWGHW2	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
2	14	10	12	20	35	15	18	12	22
	38	11		16	17	22	20		13

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 3 - YSTR Results</b>										
6CFLD4	PowerPlex® Y 23									
	15	11,14	12	28	23	11	13	13		
3	15	12	13	18	16	17	22			
	12	13	17	18	25	10	11			
7DNXV6	PowerPlex® Y 23									
	15	11,14	12	28	23	11	13	13		
3	15	12	13	18	16	17	22			
	12	13	17	18	25	10	11			
8A2XTU	Yfiler™									
	15	11,14	12	28	23	11	13	13		
3	15	12	13	18	16	17	22			
						25		11		
HYNDXP	PowerPlex® Y 23									
	15	11,14	12	28	23	11	13	13		
3	15	12	13	18	16	17	22			
	12	13	17	18	25	10	11			
PNZUKH										
	15	11,14	12	28	23	11	13	13		
3	15	12	13	18	16	17	22			
	12	13	17	18	25	10	11			
YLJP2C	PowerPlex® Y 23									
	15	11,14	12	28	23	11	13	13		
3	15	12	13	18	16	17	22			
	12	13	17	18	25	10	11			

TABLE 2

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

## Item 3e - YSTR Results

2ETJ7U	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		
							25		11
2XNKBR	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		
							25		11
3JMPRB	Yfiler™ Plus								
3e									
3QN46	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
3RF2M6	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		
							25		11
3WA4LX	PowerPlex® Y PPY23								
3e									
4PQZEV	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
4Z8QUR	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		
							25		11
4ZQ3K8	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3e		15	12	13	18	16	17		22
		12	13	17	18		25	10	11
6ANVFW	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	29	16	17	11
	37	12	NT	17	18	22	25	NT	11
6DV7HR	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
6PN2MU	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e		15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11

TABLE 2

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

## Item 3e - YSTR Results

7PGCXM	Yfiler™								
	N/A	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	N/A	16	17	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	25	N/A	11
8ZCFLU	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
98U8BY	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
9DHV4J	Yfiler™ Plus								
3e									
9ZB63W	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
BR789N	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
BUZGWX	PowerPlex® Y 23								
3e									
CL6YVU	Yfiler™								
3e									
D74J97	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e	15	12	13	18		16	17		
							25		11
DHTU4Q	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
EF4CEX	PowerPlex® Y 23								
3e									
FB8FFB	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11

TABLE 2

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

## Item 3e - YSTR Results

FF4X2H	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
G2VBVC	Yfiler™								
		15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	16	17		
						25			11
GNAWTD	Yfiler™								
	-	15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	-	16	17	-
	-	-	-	-	-	-	25	-	11
H7M86G	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
HCQEKJ	Yfiler™								
	3e								
HLZJXA	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	16	17		22
		12	13	17	18		25	10	11
HXUZKP	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	16	17		22
		12	13	17	18		25	10	11
JNJXYP	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
	3e	15	12	13	18		16	17	22
		12	13	17	18		25	10	11
KHV3NR	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	16	17		22
		12	13	17	18		25	10	11
KKF9NE	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
KNDVEH	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	16	17		22
		12	13	17	18		25	10	11
KPUDRG	PowerPlex® Y 23								
	3e								

TABLE 2

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

## Item 3e - YSTR Results

KUJWMJ	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
LHP8HQ	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	16	17		22
		12	13	17	18	25	10		11
LVUQVC	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
LZ3LLK	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	16	17		22
		12	13	17	18	25	10		11
M4NG9C	PowerPlex® Y 23								
	3e								
ME4D64	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
MPMR97	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	16	17		22
		12	13	17	18	25	10		11
MRPPGD	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
N4G7Y7	Yfiler™								
		15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	16	17		
						25			11
N8WXNE	PowerPlex® Y 23								
	3e								
N8ZK38	Yfiler™								
	-	15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	-	16	17	-
	-	-	-	-	-	-	25	-	11
NBGBJF	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	3e	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11



TABLE 2

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

## Item 3e - YSTR Results

NEKTXB	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
3e	37	12		17	18	22	25		11
NFAMN8	Yfiler™								
		15	11,14	12	28	23	11	13	13
	15	12	13	18		16	17		22
3e							25		11
PGJHYJ	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
3e	37	12		17	18	22	25		11
QF4RZY	PowerPlex® Y Y23								
		15	11,14	12	28	23	11	13	13
	15	12	13	18		16	17		22
3e		12	13	17	18		25	10	11
QQJRHD	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
3e	37	12		17	18	22	25		11
QRHTQQ	Yfiler™								
		15	11,14	12	28	23	11	13	13
	15	12	13	18		16	17		22
3e							25		11
QRVD9E	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
3e	37	12		17	18	22	25		11
QU9R6N	Yfiler™ Plus								
	3e								
R3VTKK	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
	15	12	13	18		16	17		22
3e		12	13	17	18		25	10	11
RGWTR9	PowerPlex® Y 23								
	3e								
RM2YYX	Yfiler™ Plus								
	3e								
T7PHPB	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
3e	37	12		17	18	22	25		11

TABLE 2

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

## Item 3e - YSTR Results

UFRM9Y	Yfiler™								
	N/A	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	N/A	16	17	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	25	N/A	11
UQBVG6	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
UYNTEP	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e	15	12	13	18		16	17		
							25		11
VK7JDZ	Yfiler™								
	-	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	-	16	17	-	-
	-	-	-	-	-	-	25	-	11
W8CPGW	Yfiler™								
	N/A	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	N/A	16	17	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	25	N/A	11
WCLJBD	PowerPlex® Y 23								
3e									
WKXU97	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
X4BGPD	PowerPlex® Y 23								
3e									
XAYARZ	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
XGD6NT	Yfiler™ Plus								
3e									
XKVU2Y	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
XYD6KZ	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e	15	12	13	18		16	17		
							25		11

TABLE 2

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

Item 3e - YSTR Results

Y792QW	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
ZD4YZX	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
ZKRCAY	Yfiler™								
		15	11,14	12	28	23	11	13	13
3e	15	12	13	18		16	17		
							25		11
ZQFAJ8	Yfiler™								
3e									
ZWGHW2	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 3sp - YSTR Results</b>									
2ETJ7U	Yfiler™								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		
							25		11
2XNKBR	Yfiler™								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		
							25		11
3JMPRB	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
3QNX46	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
3RF2M6	Yfiler™								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		
							25		11
3WA4LX	PowerPlex® Y PPY23								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
4PQZEV	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
4Z8QUR	Yfiler™								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		
							25		11
4ZQ3K8	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
6ANVFW	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12	NT	17	18	22	25	NT	11
6DV7HR	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
6PN2MU	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 3sp - YSTR Results</b>										
7PGCXM	Yfiler™									
	N/A	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	N/A	16	17	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	25	N/A	11	
8ZCFLU	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
98U8BY	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
9DHV4J	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
9ZB63W	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
BR789N	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
BUZGWX	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
CL6YVU	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
D74J97	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
DHTU4Q	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
EF4CEX	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
FB8FFB	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 3sp - YSTR Results</b>									
FF4X2H	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
G2VBVC	Yfiler™								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		
							25		11
GNAWTD	Yfiler™								
	-	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	-	16	17	-	-
	-	-	-	-	-	-	25	-	11
H7M86G	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
HCQEKJ	Yfiler™								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		
							25		11
HLZJXA	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
HXUZKP	PowerPlex® Y 23								
3sp									
JNJXYP	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
KHV3NR	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
KKF9NE	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
KNDVEH	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
KPUDRG	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 3sp - YSTR Results</b>									
KUJWMJ	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
LHP8HQ	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
LVUQVC	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
LZ3LLK	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
M4NG9C	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
ME4D64	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
MPMR97	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
MRPPGD	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
N4G7Y7	Yfiler™								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		
							25		11
N8WXNE	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
N8ZK38	Yfiler™								
	-	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	-	16	17	-	-
	-	-	-	-	-	-	25	-	11
NBGBJF	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 3sp - YSTR Results</b>									
NEKTXB	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
NFAMN8	Yfiler™								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		
							25		11
PGJHYJ	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
QF4RZY	PowerPlex® Y Y23								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
QQJRHD	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
QRHTQQ	Yfiler™								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		
							25		11
QRVD9E	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
QU9R6N	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
R3VTKK	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
RGWTR9	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
3sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
RM2YYX	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
T7PHPB	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
3sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11



TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 3sp - YSTR Results</b>										
UFRM9Y	Yfiler™									
	N/A	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	N/A	16	17	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	25	N/A	11	
UQBVG6	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
UYNTEP	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
VK7JDZ	Yfiler™									
	-	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	-	16	17	-	-	
	-	-	-	-	-	-	25	-	11	
W8CPGW	Yfiler™									
	N/A	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	N/A	16	17	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	25	N/A	11	
WCLJBD	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
WKXU97	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
X4BGPD	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
XAYARZ	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
XGD6NT	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
XKVU2Y	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
XYD6KZ	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 3sp - YSTR Results</b>										
Y792QW	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
ZD4YZX	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
ZKRCAY	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
ZQFAJ8	Yfiler™									
		15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18		16	17			
							25		11	
ZWGHW2	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
3sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	

TABLE 2

WebCode	Amplification Kit	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
Item		DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4 - YSTR Results</b>										
2ETJ7U	Yfiler™		14	18,19	14	31	24	10	11	13
4		14	10	12	20		15	18		13
								20		13
2XNKBR	Yfiler™		14	18,19	14	31	24	10	11	13
4		14	10	12	20		15	18		13
								20		13
3JMPRB	Yfiler™ Plus	34,37	14	18,19	14	31	24	10	11	13
4		14	10	12	20	35	15	18	12	22
		38	11		16	17	22	20		13
3QNX46	Yfiler™ Plus	34,37	14	18,19	14	31	24	10	11	13
4		14	10	12	20	35	15	18	12	22
		38	11		16	17	22	20		13
4PQZEV	Yfiler™ Plus	34,37	14	18,19	14	31	24	10	11	13
4		14	10	12	20	35	15	18	12	22
		38	11		16	17	22	20		13
4ZQ3K8	PowerPlex® Y 23		14	18,19	14	31	24	10	11	13
4		14	10	12	20		15	18		22
			11	13	16	17		20	12	13
6ANVFW	Yfiler™ Plus	34,37	14	18,19	14	31	24	10	11	13
4		14	10	12	20	35	15	18	12	22
		38	11	NT	16	17	22	20	NT	13
6CFLD4	PowerPlex® Y 23		14	18,19	14	31	24	10	11	13
4		14	10	12	20		15	18		22
			11	13	16	17		20	12	13
6DV7HR	Yfiler™ Plus	34,37	14	18,19	14	31	24	10	11	13
4		14	10	12	20	35	15	18	12	22
		38	11		16	17	22	20		13
6PN2MU	Yfiler™ Plus	34,37	14	18,19	14	31	24	10	11	13
4		14	10	12	20	35	15	18	12	22
		38	11		16	17	22	20		13
7DNXV6	PowerPlex® Y 23		14	18,19	14	31	24	10	11	13
4		14	10	12	20		15	18		22
			11	13	16	17		20	12	13
7PGCXM	Yfiler™	N/A	14	18,19	14	31	24	10	11	13
4		14	10	12	20	N/A	15	18	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	20	N/A	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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 4 - YSTR Results

8A2XTU	Yfiler™		14	18,19	14	31	24	10	11	13
4		14	10	12	20		15	18		13
								20		
8ZCFLU	Yfiler™ Plus	34,37	14	18,19	14	31	24	10	11	13
4		14	10	12	20	35	15	18	12	22
		38	11		16	17	22	20		13
98U8BY	Yfiler™ Plus	34,37	14	18,19	14	31	24	10	11	13
4		14	10	12	20	35	15	18	12	22
		38	11		16	17	22	20		13
9ZB63W	Yfiler™ Plus	34,37	14	18,19	14	31	24	10	11	13
4		14	10	12	20	35	15	18	12	22
		38	11		16	17	22	20		13
BMH992	Yfiler™		14	18,19	14	31	24	10	11	13
4		14	10	12	20		15	18		13
								20		
BR789N	Yfiler™ Plus	34,37	14	18,19	14	31	24	10	11	13
4		14	10	12	20	35	15	18	12	22
		38	11		16	17	22	20		13
BUZGWX	PowerPlex® Y 23		14	18,19	14	31	24	10	11	13
4		14	10	12	20		15	18		22
			11	13	16	17		20	12	13
CL6YVU	Yfiler™		14	18,19	14	31	24	10	11	13
4		14	10	12	20		15	18		13
								20		
D74J97	Yfiler™		14	18,19	14	31	24	10	11	13
4		14	10	12	20		15	18		13
								20		
DHTU4Q	Yfiler™ Plus	34,37	14	18,19	14	31	24	10	11	13
4		14	10	12	20	35	15	18	12	22
		38	11		16	17	22	20		13
EF4CEX	PowerPlex® Y 23		14	18,19	14	31	24	10	11	13
4		14	10	12	20		15	18		22
			11	13	16	17		20	12	13
FB8FFB	Yfiler™ Plus	34,37	14	18,19	14	31	24	10	11	13
4		14	10	12	20	35	15	18	12	22
		38	11		16	17	22	20		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 4 - YSTR Results

FF4X2H	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
	14	10	12	20	35	15	18	12	22
4	38	11		16	17	22	20		13
G2VBVC	Yfiler™								
		14	18,19	14	31	24	10	11	13
	14	10	12	20		15	18		
						20			13
GNAWTD	Yfiler™								
	-	14	18,19	14	31	24	10	11	13
	14	10	12	20	-	15	18	-	-
	-	-	-	-	-	-	20	-	13
H7M86G	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
	14	10	12	20	35	15	18	12	22
4	38	11		16	17	22	20		13
HCQEJ	Yfiler™								
		14	18,19	14	31	24	10	11	13
	14	10	12	20		15	18		
						20			13
HLZJA	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	14	10	12	20		15	18		22
4		11	13	16	17	20	12		13
HXUZKP	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	14	10	12	20		15	18		22
4		11	13	16	17	20	12		13
HYNDXP	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	14	10	12	20		15	18		22
4		11	13	16	17	20	12		13
JNJYYP	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	14	10	12	20		15	18		22
4		11	13	16	17	20	12		13
KHV3NR	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	14	10	12	20		15	18		22
4		11	13	16	17	20	12		13
KKF9NE	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
	14	10	12	20	35	15	18	12	22
4	38	11		16	17	22	20		13
KNDVEH	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	14	10	12	20		15	18		22
4		11	13	16	17	20	12		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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 4 - YSTR Results

KUJWMJ	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
	4	14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
LHP8HQ	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	4	14	10	12	20	15	18		22
		11	13	16	17		20	12	13
LVUQVC	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
	4	14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
LZ3LLK	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	4	14	10	12	20	15	18		22
		11	13	16	17		20	12	13
ME4D64	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
	4	14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
MPMR97	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	4	14	10	12	20	15	18		22
		11	13	16	17		20	12	13
MRPPGD	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
	4	14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
N4G7Y7	Yfiler™								
		14	18,19	14	31	24	10	11	13
	4	14	10	12	20	15	18		
							20		13
N8WXNE	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
	4	14	10	12	20	15	18		22
		11	13	16	17		20	12	13
N8ZK38	Yfiler™								
	-	14	18,19	14	31	24	10	11	13
	4	14	10	12	20	-	15	18	-
	-	-	-	-	-	-	20	-	13
NBGBJF	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
	4	14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
NEKTXB	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
	4	14	10	12	20	35	15	18	12
	38	11		16	17	22	20		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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 4 - YSTR Results

NFAMN8	Yfiler™								
		14	18,19	14	31	24	10	11	13
4		14	10	12	20	15	18		
							20		13
PNZUKH									
		14	18,19	14	31	24	10	11	13
4		14	10	12	20	15	18		22
		11	13	16	17		20	12	13
QF4RZY	PowerPlex® Y Y23								
		14	18,19	14	31	24	10	11	13
4		14	10	12	20	15	18		22
		11	13	16	17		20	12	13
QQJRHD	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
4		14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
QRHTQQ	Yfiler™								
		14	18,19	14	31	24	10	11	13
4		14	10	12	20	15	18		
							20		13
QRVD9E	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
4		14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
QU9R6N	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
4		14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
R3VTKK	PowerPlex® Y 23								
		14	18,19	14	31	24	10	11	13
4		14	10	12	20	15	18		22
		11	13	16	17		20	12	13
RM2YYX	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
4		14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
T7PHPB	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
4		14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13
UFRM9Y	Yfiler™								
	N/A	14	18,19	14	31	24	10	11	13
4		14	10	12	20	N/A	15	18	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	20	N/A	13
UQBVG6	Yfiler™ Plus								
	34,37	14	18,19	14	31	24	10	11	13
4		14	10	12	20	35	15	18	12
	38	11		16	17	22	20		13

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 4 - YSTR Results</b>										
UYNTEP	Yfiler™									
		14	18,19	14	31	24	10	11	13	
4	14	10	12	20		15	18			
							20			13
VK7JDZ	Yfiler™									
	-	14	18,19	14	31	24	10	11	13	
4	14	10	12	20	-	15	18	-	-	
	-	-	-	-	-	-	20	-		13
W8CPGW	Yfiler™									
	N/A	14	18,19	14	31	24	10	11	13	
4	14	10	12	20	N/A	15	18	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	20	N/A		13
WCLJBD	PowerPlex® Y 23									
		14	18,19	14	31	24	10	11	13	
4	14	10	12	20		15	18			22
		11	13	16	17		20	12		13
WKXU97	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
4	14	10	12	20	35	15	18	12		22
	38	11		16	17	22	20			13
X4BGPD	PowerPlex® Y 23									
		14	18,19	14	31	24	10	11	13	
4	14	10	12	20		15	18			22
		11	13	16	17		20	12		13
XAYARZ	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
4	14	10	12	20	35	15	18	12		22
	38	11		16	17	22	20			13
XGD6NT	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
4	14	10	12	20	35	15	18	12		22
	38	11		16	17	22	20			13
XKVU2Y	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
4	14	10	12	20	35	15	18	12		22
	38	11		16	17	22	20			13
XYD6KZ	Yfiler™									
		14	18,19	14	31	24	10	11	13	
4	14	10	12	20		15	18			
							20			13
Y792QW	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
4	14	10	12	20	35	15	18	12		22
	38	11		16	17	22	20			13
YLJP2C	PowerPlex® Y 23									
		14	18,19	14	31	24	10	11	13	
4	14	10	12	20		15	18			22
		11	13	16	17		20	12		13



TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 4 - YSTR Results</b>										
ZD4YZX	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
4	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20		13	
ZKRCAY	Yfiler™									
		14	18,19	14	31	24	10	11	13	
4	14	10	12	20		15	18			
							20		13	
ZQFAJ8	Yfiler™									
		14	18,19	14	31	24	10	11	13	
4	14	10	12	20		15	18			
							20		13	
ZWGHW2	Yfiler™ Plus									
	34,37	14	18,19	14	31	24	10	11	13	
4	14	10	12	20	35	15	18	12	22	
	38	11		16	17	22	20		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

4Z8QUR	Yfiler™								
		14	18,19	14	31	24	10	11	13
4e		14	10	12	20	15	18		
							20		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 4sp - YSTR Results

4Z8QUR Yfiler™

4sp										
						15				
							20			

# Additional DNA Results

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>
QS1	GG9KWG	Q	Q		Q	Q	Q		
QS2	GG9KWG	S	S		S	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	<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
2D7UBG	Yes	No	No	Yes	6ANVFW	Yes	No	No	Yes
2ETJ7U	Yes	No	No	Yes	6CFLD4	Yes	No	No	Yes
2XNKBR	Yes	No	No	Yes	6DV7HR	Yes	No	No	Yes
3G2WMV	Yes	No	No	Yes	6EGLEZ	Yes	No	No	Yes
3JMPRB	Yes	No	No	Yes	6PN2MU	Yes	No	No	Yes
3NUYHY	No	No	No	Yes	7DNKYG	Yes	No	No	Yes
3QNX46	Yes	No	No	Yes	7DNXV6	Yes	No	No	Yes
3RF2M6	Yes	No	No	Yes	7FUFUZ	Yes	No	No	Yes
3UANHG	Yes	No	No	Yes	7PGCXM	Yes	No	No	Yes
3WA4LX	Yes	No	No	Yes	7Z29TY	Yes	No	No	Yes
3X86UB	No Interpretations Reported, DNA Analyzed for Database purposes only.				8A2XTU	Yes	No	No	Yes
4AVA2T	Yes	No	No	Yes	8D8PDA	Yes	No	No	Yes
4PQZEV	Yes	No	No	Yes	8JNWJZ	Yes	No	No	Yes
4Z8QUR	Yes	No	No	Yes	8NLU8C	Yes	No	No	Yes
4ZQ3K8	Yes	No	No	Yes	8UC8AZ	Yes	No	No	Yes
64LWWK	Yes	No	No	Yes	8ZCFLU	Yes	No	No	Yes
64ZELJ	Yes	No	No	Yes	98U8BY	Yes	No	No	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
9DHV4J	Yes	No	No	Yes	DHHLLQ	Yes	No	No	Yes
9FN79Y	Yes	No	No	Yes	DHTU4Q	Yes	No	No	Yes
9HUMMH	Yes	No	No	Yes	EF4CEX	Yes	No	No	Yes
9HVN7V	Yes	No	No	Yes	EMQJDB	Yes	No	No	Yes
9TQ2XE	Yes	No	No	Yes	EX9283	Yes	No	No	Yes
9ZB63W	Yes	No	No	Yes	FB8FFB	Yes	No	No	Yes
A4MC3F	Yes	No	No	Yes	FDVZB8	Yes	No	No	Yes
A923D2	Yes	No	No	Yes	FF4X2H	Yes	No	No	Yes
AH9R6E	Yes	No	No	Yes	FPQWRM	Yes	No	No	Yes
AW8LN2	Yes	No	No	Yes	G2VBVC	Yes	No	No	Yes
BMH992		No		Yes	G6FGUT	Yes	No	No	Yes
BR789N	Yes	No	No	Yes	GCXZ3U	Yes	No	No	Yes
BUZGWX	Yes	No	No	Yes	GG9KWG	Yes	No	No	Yes
BYQZR2	Yes	No	No	Yes	GNAWTD	Yes	No	No	Yes
CL39PC	Yes	No	No	Yes	GXDRBH	Yes	No	No	Yes
CL6YVU	Yes	No	No	Yes	H7M86G	Yes	No	No	Yes
D74J97	Yes	No	No	Yes	HCQEJ	Yes	No	No	Yes
D8H7KT	Yes	No	No	Yes	HLJUMP	Yes	No	No	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
HLZJXA	Yes	No	No	Yes	L7BD6D	Yes	No	No	Yes
HRQ6T3	Yes	No	No	Yes	LHP8HQ	Yes	No	No	Yes
HXUZKP	Yes	No	No	Yes	LVUQVC	Yes	No	No	Yes
HYMW2W	No Interpretations Reported, DNA Analyzed for Database purposes only.				LXK2Z6	Yes	No	No	Yes
HYNDXP	Yes	No	No	Yes	LYYK8G	Yes	No	No	Yes
JAY3FR	Yes	No	No	Yes	LZ3LLK	Yes	No	No	Yes
JHF383	Yes	No	No	Yes	M4NG9C	Yes	No	No	Yes
JHHPLV	Yes	No	No	Yes	MCVR9A	Yes	No	No	Yes
JNJXYP	Yes	No	No	Yes	ME4D64	Yes	No	No	Yes
KDHZHT	No Interpretations Reported, DNA Analyzed for Database purposes only.				MPMR97	Yes	No	No	Yes
KETPZJ	Yes	No	No	Yes	MQEZMZ	Yes	No	No	Yes
KHV3NR	Yes	No	No	Yes	MRD29Y	Yes	No	No	Yes
KKF9NE	Yes	No	No	Yes	MRPPGD	Yes	No	No	Yes
KNDVEH	Yes	No	No	Yes	N2AJ9Z	No	No	No	Yes
KPUDRG	Yes	No	No	Yes	N4G7Y7	Yes	No	No	Yes
KUJWMJ	Yes	No	No	Yes	N69U4Z	Yes	No	No	Yes
KYXHN4	Yes	No	No	Yes	N8WXNE	Yes	No	No	Yes
L6MHGP	Yes	No	No	Yes	N8ZK38	Yes	No	No	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
N9GVFY	Yes	No	No	Yes	RNA2TA	Yes	No	No	Yes
NBGBJF	Yes	No	No	Yes	RPAZAW	Yes	No	No	Yes
NEKTXB	Yes	No	No	Yes	RRWCBN	Yes	No	No	Yes
NFAMN8	Yes	No	No	Yes	T2W896	No Interp	No Interp	No	No
PGJHYJ	Yes	No	No	Yes	T3T26U	Yes	No	No	Yes
PN3GYB	Yes	No	No	Yes	T7PHPB	Yes	No	No	Yes
PNZUKH	Yes	No	No	Yes	TW2DB4	Yes	No	No	Yes
QDZJQ2	Yes	No	No	Yes	TXJNMV	Yes	No	No	Yes
QF4RZY	Yes	No	No	Yes	U2UZWG	Yes	No	No	Yes
QHUUZK	No Interp	No Interp	No Interp	No Interp	UFFFZG	Yes	No	No	Yes
QJ4VU7	Yes	No	No	Yes	UFRM9Y	Yes	No	No	Yes
QQJRHD	No Interp	No Interp	No Interp	No Interp	UQBG6	Yes	No	No	Yes
QRHTQQ	Yes	No	No	Yes	UYNTEP	Yes	No	No	Yes
QRVD9E	Yes	No	No	Yes	VHJLYM	Yes	No	No	Yes
QU9R6N	Yes	No	No	Yes	VJAM6B	No Interp	No Interp	No Interp	No Interp
R3VTKK	Yes	No	No	Yes	VJMZ78	Yes	No	No	Yes
RGWTR9	Yes	No	No	Yes	VK7JDZ	Yes	No	No	Yes
RM2YYX	Yes	No	No	Yes	W2PF7J	Yes	No	No	Yes



TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
W8CPGW	Yes	No	No	Yes	ZD4YZX	Yes	No	No	Yes
WCLJBD	Yes	No	No	Yes	ZKRCAY	Yes	No	No	Yes
WDJWVK	Yes	No	No	Yes	ZL2CCK	Yes	No	No	Yes
WHBKC8	Yes	No	No	Yes	ZP32F9	Yes	No	No	Yes
WKG6Z8	Yes	No	No	Yes	ZQFAJ8	Yes	No	No	Yes
WKXU97	Yes	No	No	Yes	ZWGHW2	Yes	No	No	Yes
X4BGPD	Yes	No	No	Yes					
X4MXHY	Yes	No	No	Yes					
XAYARZ	Yes	No	No	Yes					
XGD6NT	Yes	No	No	Yes					
XKJFTA	Yes	No	No	Yes					
XKVU2Y	Yes	No	No	Yes					
XYD6KZ	Yes	No	No	Yes					
Y792QW	Yes	No	No	Yes					
YKQBQL	Yes	No	No	Yes					
YLJP2C	Yes	No	No	Yes					
YMGCWA	Yes	No	No	Yes					
ZACFD8	Yes	No	No	Yes					

**DNA Interpretation****Response Summary****Participants reporting DNA results: 166**

*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>156</b>	<b>0</b>	<b>0</b>	<b>159</b>
No	<b>2</b>	<b>159</b>	<b>159</b>	<b>1</b>
Inc	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
No Interpretation	<b>4</b>	<b>4</b>	<b>3</b>	<b>3</b>
No Response	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>

Participants analyzing DNA for database purposes only: 3

# Additional Comments

## TABLE 5

WebCode	Additional Comments
2ETJ7U	Spermatozoa were observed on the microscopic slide made from 3sp.
2XNKBR	Extraction: Chelex extraction method was used to extract DNA from Item 1, Item 2, Item 3 and Item 4. Quantification: DNA quantitation for Item 1, Item 2, 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, Item 2, Item 3 and Item 4 were carried out 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.
3G2WMV	NR = No DNA typing results. Spermatozoa were detected on slides prepared from item 3 sperm cell fraction. There appeared to be a problem with item #3 prior to [Laboratory] receiving the test packets. I was unable to obtain a full profile for the epithelial cell fraction. This sample was extracted two times.
4PQZEV	NR = No Results
6ANVFW	NT = Not tested. NR = No results.
6DV7HR	NR = No Results
7DNKYG	Spermatozoa were observed by microscopic examination of the sperm cell fraction of item 3. I had difficulty with obtaining sufficient DNA profiles from both of the epithelial and sperm cell fractions of item 3 stain. It took me three separate extractions of the blood/semen mixture stain of item 3 in order to obtain full and sufficient DNA profiles for comparison purposes. On the third extraction, I used the organic extraction method and I had to consume the entire stain. There appeared to be some sort of issue with either the stain or the fabric or both possibly causing inhibition of DNA amplification.
8A2XTU	Item 4: mRMP by Familias 3 = 7.99E+31, Item 3 LR by LRMix Studio: Item 1 + 1 unkn vs 2 unkn = 3.3E+12; Item 2 + 1 unkn vs 2 unkn = 6.8E-30.
8UC8AZ	ND = No DNA detected
98U8BY	NR = No Results
9TQ2XE	Spermatozoa were observed in the differential slide. In order to get a complete profile, I had to extract item #3, three separate times. The last attempt I consumed the remainder of the sample and performed an organic extraction. I reported the data from the last extraction.
9ZB63W	NR = No Results
BMH992	Missing Person protocols were used for testing. No protocols exist for semen extraction, therefore no analysis was performed on Item 3. Minifiler and Globalfiler results were concordant for Item 4.
BR789N	NR = No results
DHTU4Q	NR = No Results
FF4X2H	NR = No Results. Item 1 not analyzed for Y-STR DNA/not analyzed with Yfiler Plus kit since it was a known DNA sample from a female individual.
G2VBVC	Extraction: Item 1, Item 2 and Item 4 were extracted using the Automate Express™ Forensic DNA Extraction System with PrepFiler Express™ Kits. Item 3 was extracted by using the Chelex extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler™ Human DNA Quantification Kit on Applied Biosystems™ 7500 Real-Time PCR Systems. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using AmpFLSTR™ Identifiler™ Plus and Yfiler™ PCR Amplification Kits on Applied Biosystems™ GeneAmp™ PCR System 9700. Electrophoresis: Electrophoresis was carried out on Applied Biosystems™ 3500XL Genetic Analyzer and the data were 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.

TABLE 5

WebCode	Additional Comments
GNAWTD	Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using chelex method. Quantitation: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Human Quantification Kit via QuantStudio5. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using AMPFISTR Identifiler Plus Kit on 9700 GeneAmp PCR System. Item 2, Item 3 and Item 4 were amplified using AMPFLSTR Y-Filer Kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis for Identifiler Plus PCR products of Item 1, Item 2, Item 3 and Item 4 were carried out using Genetic Analyzer 3500xl. Electrophoresis for YFiler PCR products of Item 2, Item 3 and Item 4 were carried out using Genetic Analyzer 3500xl. Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
H7M86G	NR = No results
HLJUMP	The following peaks not considered for comparison due to possible artifacts interference (combination stutter): Item 3 e = 15.3 at D1S1656, 12 at D16S539, 12 at D18S51, 5 and 8 at TH01, 10 at D7S820, 12 at D8S1179, 22 at FGA
JNJXYP	The victim (Item 1) and one unknown male are not excluded as the source of the cells mixture in the epithelial fraction of the blood and semen mixture stain in the victim's bedsheet brown (Item 3). An unknown male is not excluded as the source of the cells in the spermatic fraction of the blood and semen mixture stain in the victim's bedsheet brown (Item 3). It is noted that the genetic profile recovered from the blood stain in the victim's shirt (Item 4) is fully consistent with the suspect profile (Item 2) for all the autosomic STRs analyzed. Therefore the suspect (Item 2) is not excluded as the source of the blood sample detected in the victim's shirt.
KUJWMJ	NR = No Results
MRPPGD	NR = No results
N2AJ9Z	NAO = No allele observed; NR = No DNA profile obtained. Spermatozoa were observed by microscopic examination of Item 3. Item 3: Two separate differential extractions were performed on this item and the stain was consumed during the second extraction. For the female fraction, weak quantitation values were obtained for each extraction and only a partial DNA profile was obtained. The female fraction could not interpreted for source attribution due to the limited amount of genetic information obtained (NI). The results given in the interpretation section for item 3 are based ONLY on the male fraction where a single source male DNA profile was obtained. Our laboratory reports separate interpretations for the female and male fractions. Therefore, the female fraction would be reported as NI and both the victim and suspect would be excluded from the male fraction. It is my belief that there was a problem with item 3 that occurred prior to our receipt of this test in our laboratory. This sample was processed using a differential extraction in a batch-wise fashion with other samples and high amounts of DNA were obtained from other female fractions, resulting in full DNA profiles.
N4G7Y7	1. Chelex extraction method was used to extract DNA from all items. 2. DNA quantification was carried out using Quantifiler Human DNA Quantification Kit with Applied Biosystems Real Time Polymerase Chain Reaction (PCR) 7500 System. 3. Amplification of STR (Short Tandem Repeat) Genetic Loci was carried out using the AmpFISTR Identifiler Plus PCR Amplification Kit. 4. Amplification of Y-STR (Short Tandem Repeat) Genetic Loci was carried out using the AmpFISTR Y-Filer PCR Amplification Kit. 5. Capillary electrophoresis was carried out using the Applied Biosystem 3500xl Genetic Analyzer with GeneMapper ID-X Software. 7. Reagent blank, positive control and negative control were carried out throughout the analysis and all gave the intended results.
N69U4Z	Spermatozoa were observed on the slide made from item 3. NAO = No allele observed, INC= Inconclusive with regard to genotype, observed genetic markers are indicated in parentheses. There appeared to be a problem with item 3 prior to [Laboratory] receiving the test packets. A partial profile was obtained from both the epithelial and sperm cell fractions. This sample was extracted 2 times.

TABLE 5

WebCode	Additional Comments
N8ZK38	Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using chelex extraction method. Quantitation: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Human Quantification Kit via QuantStudio5. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using AMPFISTR Identifiler Plus Kit on 9700 GeneAmp PCR System. Item 2, Item 3 and Item 4 were also amplified using AMPFLSTR Y-Filer kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis for Identifiler Plus of Item 1, Item 2, Item 3 and Item 4 were carried out using Genetic Analyzer 3500xl. Electrophoresis for YFiler of Item 2, Item 3 and Item 4 were carried out using Genetic Analyzer 3500xl. Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
NBGBJF	NR = no results
NFAMN8	Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using chelex method. Quantitation: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Human Quantification Kit via QS5. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using AMPFISTR Identifiler Plus Kit on 9700 GeneAmp PCR System. Item 2, Item 3 and Item 4 were amplified using AMPFLSTR Y-Filer Kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis for Identifiler Plus PCR products of Item 1, Item 2, Item 3 and Item 4 were carried out using Genetic Analyzer 3500xl. Electrophoresis for Yfiler PCR products of Item 2, Item 3 and Item 4 were carried out using Genetic Analyzer 3500xl. Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
QHUUZK	Tested analyst is not proficient in differential extraction or comparisons, therefore Item 3 was not tested and no comparisons were done.
QJ4VU7	Spermatozoa was observed on a differential slide from sample 3 male fraction. NAO-No alleles observed.
QQJRHD	NR= No Result. NA= Not Analyzed. Proficiency Test for Technician purposes only. No DNA Interpretation's were made.
QRVD9E	NR = No Results
T2W896	NO DNA RESULTS WERE OBTAINED FROM ITEM 1
T7PHPB	N/R = No Results
UQBVG6	NR = No Results
VJAM6B	The known samples were not analyzed. DNA analysis was performed on Items 3 and 4 to show the correct results were obtained for the analyst that performed DNA extraction and quantitation.
VK7JDZ	Extraction: Item 1, Item 2 and Item 4 were extracted by Chelex extraction method. Item 3 was extracted using differential extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification Kit on QuantStudio 5 Real-Time PCR System. Amplification: Item 1, Item 2, 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 Y-Filer Kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis were carried out on Genetic Analyzer 3500xl for Item 1, Item 2, Item 3 and Item 4 (Identifiler Plus). Electrophoresis were carried out on Genetic Analyzer 3500xl for Item 2, Item 3 and Item 4 (Yfiler). Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
WKXU97	NR = No Results
XAYARZ	NA = Not Analyzed
XKVU2Y	NR = no results
XYD6KZ	Y-STR analysis was not performed on Item 1 because no male DNA was detected with Quantifiler Trio.
Y792QW	NR = no results
ZACFD8	No statistical evaluations were made for the interpretation of the 4 profiles. Profiles #1, 2 and 4 are complete and individuals. Profile #3 is a mixture of 2 individuals, at least. In the profile #3, the victim's profile is found but not the suspect's one. Suspect can be excluded from the profile #3.
ZKRCAY	YSTR analysis was not performed on Item 1 due to no male DNA being detected utilizing Quantifiler Trio.

### TABLE 5

<b>WebCode</b>	<b>Additional Comments</b>
ZWGHW2	NR = No Results

-End of Report-  
(Appendix may follow)

## Test No. 19-5804: DNA-Semen

DATA MUST BE SUBMITTED BY **Sept. 3, 2019, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234D

WebCode: VTEYUD

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

### Scenario:

Police are investigating the sexual assault of a female victim. The victim claims her landlord broke into her apartment while her boyfriend was out buying groceries. She claims that the landlord attempted to rape her but that she was able to fight him off by scratching his face and then running to a neighbor's apartment. Investigators are submitting a stain from the victim's bedsheet (Item 3) and a stain from the victim's shirt (Item 4). Screening has been performed on both samples with the following results: Item 3 (bedsheet) is positive for blood and semen, and Item 4 (shirt) is positive for blood. Also collected were known blood samples from the female victim (Item 1) and the male suspect (Item 2). A known sample was not obtained from the female victim's boyfriend.

### Items Submitted (Sample Pack S4):

Item 1: Known blood from the female victim

Item 2: Known blood from the male suspect

Item 3: Questioned blood and semen mixture stain from victim's bedsheet (brown)

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













### Part II: DNA INTERPRETATION

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

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

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

### Part III: ADDITIONAL COMMENTS

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

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

## RELEASE OF DATA TO ACCREDITATION BODIES

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

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

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

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

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

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

A2LA Certificate No.

**Step 2: Complete the Laboratory Identifying Information in its entirety.**

Authorized Contact Person and Title

Laboratory Name

Location (City/State)