



## **DNA-Mixture Test No. 25-5801**

### **Summary Report**

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Each participant received a sample pack consisting of two known bloodstains and two questioned stains which they were asked to analyze using their existing protocols. Data were returned from 185 participants and are compiled into the following tables:

	<u>Page</u>
<a href="#"><u>Manufacturer's Information</u></a>	<u>2</u>
<a href="#"><u>Summary Comments</u></a>	<u>4</u>
<a href="#"><u>Table 1: STR Amplification Kit(s) &amp; Results</u></a>	<u>5</u>
<a href="#"><u>Table 2: YSTR Amplification Kit(s) &amp; Results</u></a>	<u>139</u>
<a href="#"><u>Table 3: Additional DNA Results</u></a>	<u>170</u>
<a href="#"><u>Table 4: DNA Interpretations</u></a>	<u>171</u>
<a href="#"><u>Table 5: Additional Comments</u></a>	<u>177</u>
<a href="#"><u>Appendix: Data Sheet</u></a>	

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 and two questioned stains. Participants were asked to analyze these items using their existing protocols.

**SAMPLE PREPARATION:** Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried into separate envelopes.

**SAMPLE PACK ASSEMBLY:** One of each item was placed into a pre-labeled sample pack envelope and sealed. The sealed envelopes were then packaged in pre-labeled heat seal envelopes and sealed. Completed sample packs were stored at -20°C until shipment.

**VERIFICATION:** Predistribution results were consistent with each other and the manufacturer's preparation information. Consistent allelic results were reported for all STR and YSTR loci.

Item	Known/ Questioned	Substrate	Body Fluid	Volume (Mixture Ratio)	Sex	Donor Information
1	Known	White Fabric	Blood	50 µL	Female	Victim
2	Known	White Fabric	Blood	50 µL	Male	Suspect
3	Questioned	Grey Fabric	Blood	50 µL	Female	Victim
4	Questioned	Yellow Fabric	Blood/Semen	50 µL (1:1)	Female/Male	Victim/Additional Male

## Manufacturer's Information, continued

<b>Amelogenin and STR Results</b>						
Results compiled from predistribution laboratories and a consensus of at least 10 participants.						
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	
1	17.3,17.3	18,25	13,14	17,17	9,11	*
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18	NM	NM	NM	NM	
2	11,16	23,25	10,14	14,14	11,13	*
	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23	10,10	11,12	23.2,26.2	9.3,9.3	11,11
	16,17	11	17	21	2	
3	17.3,17.3	18,25	13,14	17,17	9,11	*
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18	NM	NM	NM	NM	
4-Blood	17.3,17.3	18,25	13,14	17,17	9,11	*
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18	NM	NM	NM	NM	
4-Semen	14,18.3	20,25	11,14	15,18	9,11	*
	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2	10,13	8,12	15,28.2	6,9	8,10
	16,17	10	18	19	2	

<b>YSTR Results</b>										
Results compiled from predistribution laboratories and a consensus of at least 10 participants.										
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4	
2	35,36	14	11,15	12	28	24	11	14	13	
	15	12	12	19	30	16	19	11	20	
	37	12	12	17	21	22	23	10	13	
4-Semen	35,36	14	11,13	14	30	24	10	13	13	
	15	12	12	19	29	14	17	11	22	
	38	12	13	18	19	20	24	10	12	

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

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

## **Summary Comments**

This test was designed to allow participants to assess their proficiency in the analysis and comparison of dried stains, where participants are advised of the body fluid(s) present in the questioned stains. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Item 1 and Item 3 were created using blood from the same female donor. Item 2 was created using blood from a male donor. Item 4 was created using blood from the female donor used in Item 1 and semen from a male donor whose known standard was not provided. Refer to the Manufacturer's Information for preparation details.

Data were returned by 185 participants.

### DNA Analysis

For STR results, all participants reported consistent results, with the exception of twenty-four participants which reported an inconsistent result for one or more items. A majority of inconsistent results were submitted for Item 4-Blood, in which most participants were missing alleles that could be attributed to the Item 1 female donor.

For YSTR results, all participants reported consistent results.

### DNA Interpretations

Of the 185 participants that returned DNA results, 183 reported DNA interpretations for one or both questioned stains. Two participants selected the "No Interpretation" option for each conclusion.

For Item 3, all participants included the victim (Item 1) and excluded the suspect (Item 2) as possible contributors to the stain.

For Item 4, all but one participant included the victim (Item 1) and excluded the suspect (Item 2) as possible contributors to the stain. The remaining participant included the victim and reported "Inconclusive" as to whether the suspect was a contributor.

# 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

27DFZW	GlobalFiler™						
		17.3,17.3	18,25	13,14	17,17	9,11	N/A
	1	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X,X	12,12
		23,23	N/A	N/A	26.2,26.2	6,9	8,8
		16,18		N/A	N/A		
2NUZKZ	PowerPlex® 5C						
		17.3	18,25	13,14	17	9,11	-
	1	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X	12
		23	10,12	13,20	-	6,9	8
		16,18	-	-	-	-	-
2NX7YW	GlobalFiler™						
		17.3,17.3	18,25	13,14	17,17	9,11	na
	1	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X,X	12,12
		23,23	na	na	26.2,26.2	6,9	8,8
		16,18	na	na	na	na	
2QJP6Z	PowerPlex® Fusion 5C						
		17.3	18,25	13,14	17	9,11	
	1	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X	12
		23	10,12	13,20		6,9	8
		16,18					
33MC9U	PowerPlex® Fusion						
		17.3	18,25	13,14	17	9,11	
	1	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X	12
		23	10,12	13,20		6,9	8
		16,18	NR				
3AMYEV	Identifiler® Plus						
			18,25		17,17	9,11	
	1	11,13	14,16			8,12	10,13
		14,17	12,14	30,32.2		X,X	12,12
		23,23				6,9	8,8
		16,18					

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 1 - STR Results

3BXERA	GlobalFiler™ Express					
	17,3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NR			NR	
3CB7KQ	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12
	23			26.2	6,9	8
	16,18					
3DQQQ3	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	-				
3E4HGY	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
3VN9GX	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
42CXTV	Identifiler® Plus					
		18,25		17,17	9,11	
1	11,13	14,16			8,12	10,13
	14,17	12,14	30,32.2		X,X	12,12
	23,23				6,9	8,8
	16,18					
4JAH8U	PowerPlex® Fusion 5C, QIAGEN HDplex Kit					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18					

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 1 - STR Results

66ATY2	GlobalFiler™ Express					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18	no results			no results	
6G2F6W	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
6Q3KXP	GlobalFiler™					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
6RMJCV	GlobalFiler™ (STRmix™)					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
6YH769	GlobalFiler™ Express					
	17,3,17,3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NR			NR	
78BXRT	GlobalFiler™					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12
	23			26.2	6,9	8
	16,18	NM			NM	
7HTVUX	GlobalFiler™					
	17,3,17,3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	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

7MMV9U	GlobalFiler™ (STRMix)					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
7P6QDQ	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
7QKVA4	VeriFiler Plus					
	17,3,17,3	18,25	13,14	17,17	9,11	19,20
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23	10,12	13,20		6,9	8,8
	16,18					
7RWRGT	Investigator® 24plex					
	17,3,17,3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	N/A				
7VURTQ	GlobalFiler™					
	17,3,17,3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
87T8GM	GlobalFiler™					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
8ARHCM	GlobalFiler™ (STRmix)					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12
	23			26.2	6,9	8
	16,18					



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 1 - STR Results

8EKM47	GlobalFiler™ Express					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NR			NR	
8RVMTQ	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,30.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
8T8RDM	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
8WLR9U	PowerPlex® Fusion 6C					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18					
8XZW7R	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12
	23			26.2	6,9	8
	16,18	NM			NM	
98HUA3	PowerPlex® Fusion 6C					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20	26.2	6,9	8
	16,18					
9DBWFM	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					

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 1 - STR Results

9JCBY4	GlobalFiler™					
		17,3	18,25	13,14	17	9,11
1		11,13	14,16	14,16	15,18	8,12 10,13
		14,17	12,14	30,32.2	15,16	X 12
		23			26.2	6,9 8
		16,18				
9MZ4BT	PowerPlex® Fusion 5c					
		17,3	18,25	13,14	17	9,11
1		11,13	14,16	14,16	15,18	8,12 10,13
		14,17	12,14	30,32.2	15,16	X 12
		23	10,12	13,20		6,9 8
		16,18				
9UA9M3	GlobalFiler™ Express					
		17.3,17.3	18,25	13,14	17,17	9,11
1		11,13	14,16	14,16	15,18	8,12 10,13
		14,17	12,14	30,32.2	15,16	XX 12,12
		23,23			26.2,26.2	6,9 8,8
		16,18	NR			NR
9XY9N	GlobalFiler™					
		17.3,17.3	18,25	13,14	17,17	9,11
1		11,13	14,16	14,16	15,18	8,12 10,13
		14,17	12,14	30,32.2	15,16	XX 12,12
		23,23			26.2,26.2	6,9 8,8
		16,18				
A3JXZ2	GlobalFiler™					
		17,3	18,25	13,14	17	9,11
1		11,13	14,16	14,16	15,18	8,12 10,13
		14,17	12,14	30,32.2	15,16	X 12
		23			26.2	6,9 8
		16,18				
AD7ETV	GlobalFiler™ Express					
		17,3	18,25	13,14	17	9,11
1		11,13	14,16	14,16	15,18	8,12 10,13
		14,17	12,14	30,32.2	15,16	X 12
		23			26.2	6,9 8
		16,18				
AJ7E7J	PowerPlex® Fusion 5C					
		17.3,17.3	18,25	13,14	17,17	9,11
1		11,13	14,16	14,16	15,18	8,12 10,13
		14,17	12,14	30,32.2	15,16	XX 12,12
		23,23	10,12	13,20		6,9 8,8
		16,18				

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 1 - STR Results

AKNNGR	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
B24293	GlobalFiler™ Express					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NR			NR	
B4UHNP	GlobalFiler™ (STRmix)					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
B73C7M	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
B99FTQ	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
BBBXRY	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
BBVCKH	PowerPlex® Fusion 5C					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20		6,9	8,8
	16,18					

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 1 - STR Results

BHD7XM	GlobalFiler™					
	17,3,17,3	18,25	13,14	17,17	9,11	N/A
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	N/A	N/A	26.2,26.2	6,9	8,8
	16,18	N/A	N/A	N/A	N/A	
BJMRAM	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
BLE9MN	GlobalFiler™ (STRmix)					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
C94ZXH	PowerPlex® Fusion 6C					
	17,3,17,3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18					
CAT4RP	GlobalFiler™ Casework					
	17,3,17,3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
CAUYCF	GlobalFiler™					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
CDTEMP	PowerPlex® Fusion 6c					
	17,3,17,3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18					

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 1 - STR Results

CJJPWM	GlobalFiler™					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12
	23			26.2	6,9	8
	16,18	NM			NM	
CQ7XHL	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
CVD7LN	PowerPlex® Fusion 6C					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12
	23	10,12	13,20	26.2	6,9	8
	16,18					
CZR9LL	GlobalFiler™ PCR Amplification Kit					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
DE9EGL	PowerPlex® Fusion 6C					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20	26.2	6,9	8
	16,18	NID	NID	NID		
DW2YYJ	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
DXVP6X	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					

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 1 - STR Results

DZMJ4M	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12
	23			26.2	6,9	8
	16,18	NM			NM	
DZPTWR	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
E2D2KE	PowerPlex® Fusion 5C					
	17.3,17.3	18,25	13,14	17,17	9,11	-
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20	-	6,9	8,8
	16,18	-	-	-	-	
EFWRJG	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
EGPHPV	GlobalFiler™ (STRmix)					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
EJUBLF	PowerPlex® Fusion 5C					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20		6,9	8,8
	16,18					
ENBWRN	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					

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 1 - STR Results

ENQWDH	PowerPlex® Fusion 5C					
1	17,3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
EPKMJW	GlobalFiler™					
1	17,3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18	NR			NR	
F42HBL	PowerPlex® Fusion					
1	17,3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
F6N4XG	GlobalFiler™ Express					
1	17,3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
FCR4GJ	GlobalFiler™ (STRmix)					
1	17,3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
FDZXWW	GlobalFiler™ Express					
1	17,3,17,3	18,25	13,14	17,17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NR			NR	
FEW9VK	GlobalFiler™					
1	17,3,17,3	18,25	13,14	17,17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					

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 1 - STR Results

FKLQBG	PowerPlex® Fusion 5C					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
FM8BFL	PowerPlex® Fusion 6C					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18					
FMAZHX	GlobalFiler™ Express					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	No Results			No Results	
FNJABU	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
FRHL7U	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
FUA3LG	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
G9NMJF	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	N/A
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23	N/A	N/A	26.2,26.2	6,9	8,8
	16,18	N/A	N/A	N/A	N/A	



TABLE 1

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

Item 1 - STR Results

GBTXEB	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
H3GJ7M	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NR		NR		
H3XFYL	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
HBUBWK	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
HJ4GBF	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
HWM4HR	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	--		--		
J2WGZQ	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					

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 1 - STR Results

J63MEK	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
J6EYVG	PowerPlex® Fusion 6C					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20	26.2	6,9	8
	16,18					
J84NEG	PowerPlex® Fusion 5C					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
JABMDA	PowerPlex® Fusion 5C					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23	10,12	13,20		6,9	8,8
	16,18					
JTLEEQ	GlobalFiler™					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
K2TEPC	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
K4JFTF	GlobalFiler™					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12
	23			26.2	6,9	8
	16,18	NM			NM	

TABLE 1

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

Item 1 - STR Results

K8JNZB	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
KJD6PC	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
KLYPUF	PowerPlex® Fusion5c, Verifiler Plus					
	17.3	18,25	13,14	17	9,11	19,20
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
KP2BJK	GlobalFiler™ Express					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18	no results			no results	
KZK6XF	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12
	23			26.2	6,9	8
	16,18	NM			NM	
L7MVFC	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
L8DWJE	PowerPlex® Fusion 6C (STRmix)					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20	26.2	6,9	8
	16,18					

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 1 - STR Results

L9L79Q	GlobalFiler™ Express					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	No Result			No Result	
LLYRWD	GlobalFiler™ (STRMIX)					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
LNMH7B	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
LPFU4H	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
LRZKT7	GlobalFiler™ Express					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	No results			No results	
LXBZWJ	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12
	23	10,12	13,20		6,9	8
	16,18					
MQ7W9P	GlobalFiler™ Express					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	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

MVJZW7	GlobalFiler™ (STRmix)					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
N6N8C7	GlobalFiler™ (STRmix)					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
NDFM2B	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12
	23			26.2	6,9	8
	16,18	NM			NM	
NJL2JE	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
NM7979	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
NNYYCM	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	..
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	..	..	26.2,26.2	6,9	8,8
	16,18	..	..	..	..	..
NTRJHC	GlobalFiler™ (STRMix)					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					

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 1 - STR Results

P2VUP7	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
P6TDPJ	Investigator® 24plex GO!					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
PHHBT3	PowerPlex® Fusion 5C					
	17.3,17.3	18,25	13,14	17,17	9,11	-
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23	10,12	13,20	-	6,9	8,8
	16,18	-	-	-	-	
PN9MQK	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
PYUAY9	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
PZKT2L	GlobalFiler™ (STRmix)					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
Q2CRTD	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					

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 1 - STR Results

Q9DKP7	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
QPLZ89	GlobalFiler™ (STRmix)					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
RAYNW4	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
RDL938	GlobalFiler™					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12
	23			26.2	6,9	8
	16,18	NM			NM	
RFRCPB	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
RGHR67	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
RQB3E2	PowerPlex® Fusion 5C					
	17,3,17,3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23	10,12	13,20		6,9	8,8
	16,18					

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 1 - STR Results

RRJFW3	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
RXVNL8	PowerPlex® Fusion 6C, FlexPlex27					
	17,3	18,25	13,14	17	9,11	19,20
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20	26.2	6,9	8
	16,18	NID	NID	NID		
RY4H2K	GlobalFiler™ Express					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NR			NR	
RYZTY9	PowerPlex® Fusion 6C					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20	26.2	6,9	8
	16,18					
T7YZT2	PowerPlex® Fusion 6C					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18					
THDFX9	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
TVXC26	GlobalFiler™					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					



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 1 - STR Results

TW8LRG	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
TWTD3A	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
TXND68	PowerPlex® Fusion 6C					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20	26.2	6,9	8
	16,18					
TYJW89	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
UET6KH	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
UHTFGH	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
UJ29A4	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					

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 1 - STR Results

UL6J6Y	PowerPlex® Fusion 5C					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20		6,9	8,8
	16,18					
UVDVL3	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
UVYY84	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
UWPBQA	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NR			NR	
UZ9PGH	GlobalFiler™ Express					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	No Result			No Result	
V2XBPZ	PowerPlex® Fusion 6C					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18					
V8PBU2	GlobalFiler™ Express					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					

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 1 - STR Results

VBQ8N3	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	NA
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	NA	NA	26.2,26.2	6,9	8,8
	16,18	NA	NA	NA	NA	
VDQYJD	Investigator® 24plex GO!					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18	-				
VEMD77	PowerPlex® Fusion 6C					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18					
VLLW7G	GlobalFiler™ Express					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NR			NR	
VMGXA7	PowerPlex® 5C					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
W2WJ76	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
WAC3Q6	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					

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 1 - STR Results

WCT7YE	GlobalFiler™					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
WTXZL2	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
WUCYP4	PowerPlex®					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18					
XEV7YC	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
XU938Z	NGM SElect					
	17.3,17.3	18,25	13,14	17,17		
1		14,16	14,16	15,18		10,13
	14,17	12,14	30,32.2	15,16	XX	
	23,23			26.2,26.2	6,9	
	16,18					
XWWU33	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
XYJFPY	GlobalFiler™ Express					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					

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 1 - STR Results

XZHE88	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	-				
XZUU3D	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
Y8ATBW	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
Y94JGB	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
YP9D4X	GlobalFiler™ Express					
	17.3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18	NR		NR		
YPRRFU	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
YYFMGV	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12
	23			26.2	6,9	8
	16,18					

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 1 - STR Results

YYXC2B	PowerPlex® Fusion 6C					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20	26.2	6,9	8
	16,18					
YZ9DMA	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
Z7VLMU	GlobalFiler™ (STRmix)					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
Z7XY64	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NR			NR	
Z93799	Investigator® 24plex GO!					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
ZJ7Y4V	PowerPlex® Fusion 6C					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18					
ZLND8V	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					

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 1 - STR Results

ZMKE9Z	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
ZNBXDY	Investigator® 24plex					
	17.3,17.3	18,25	13,14	17,17	9,11	
1	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NA				

TABLE 1

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

27DFZW	GlobalFiler™					
		11,16	23,25	10,14	14,14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16,16	X,Y
		21,23	N/A	N/A	23.2,26.2	9.3,9.3
		16,17	11	N/A	N/A	2
2NUZKZ	PowerPlex® 5C					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23	10	11,12	-	9.3
		16,17	11	-	-	-
2NX7YW	GlobalFiler™					
		11,16	23,25	10,14	14,14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16,16	X,Y
		21,23	na	na	23.2,26.2	9.3,9.3
		16,17	11	na	na	2
2QJP6Z	PowerPlex® Fusion 5C					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23	10	11,12		9.3
		16,17	11			
33MC9U	PowerPlex® Fusion					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23	10	11,12		9.3
		16,17	11			
3AMYEV	Identifiler® Plus					
			23,25		14,14	11,13
2		9,12	13,16			8,13
		13,19	13.2,14	28,29		X,Y
		21,23				9.3,9.3
		16,17				
3BXERA	GlobalFiler™ Express					
		11,16	23,25	10,14	14,14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16,16	X,Y
		21,23			23.2,26.2	9.3,9.3
		16,17	11			2



TABLE 1

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

Item 2 - STR Results

3CB7KQ	GlobalFiler™					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16	X,Y 11
		21,23			23.2,26.2	9.3 11
		16,17	11			2
3DQQQ3	PowerPlex® Fusion					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16	X,Y 11
		21,23	10	11,12		9.3 11
		16,17	11			
3E4HGY	PowerPlex® Fusion 5C					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16	X,Y 11
		21,23	10	11,12		9.3 11
		16,17	11			
3VN9GX	PowerPlex® Fusion					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16	X,Y 11
		21,23	10	11,12		9.3 11
		16,17	11			
42CXTV	Identifiler® Plus					
			23,25		14,14	11,13
2		9,12	13,16			8,13 11,13
		13,19	13.2,14	28,29		X,Y 11,11
		21,23				9.3,9.3 11,11
		16,17				
4JAH8U	PowerPlex® Fusion 5C, QIAGEN HDplex Kit					
		11,16	23,25	10,14	14,14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16,16	X,Y 11,11
		21,23	10,10	11,12	23.2,26.2	9.3,9.3 11,11
		16,17	11			
66ATY2	GlobalFiler™ Express					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16	X,Y 11
		21,23			23.2,26.2	9.3 11
		16,17	11			2

TABLE 1

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

Item 2 - STR Results

6G2F6W	PowerPlex® Fusion					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16	X,Y 11
		21,23	10	11,12		9.3 11
		16,17	11			
6Q3KXP	GlobalFiler™					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16	X,Y 11
		21,23			23.2,26.2	9.3 11
		16,17	11			2
6RMJCV	GlobalFiler™ (STRmix™)					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16	X,Y 11
		21,23			23.2,26.2	9.3 11
		16,17	11			2
6YH769	GlobalFiler™ Express					
		11,16	23,25	10,14	14,14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16,16	X,Y 11,11
		21,23			23.2,26.2	9.3,9.3 11,11
		16,17	11			2
78BXRT	GlobalFiler™					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16	X,Y 11
		21,23			23.2,26.2	9.3 11
		16,17	11			2
7HTVUX	GlobalFiler™					
		11,16	23,25	10,14	14,14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16,16	X,Y 11,11
		21,23			23.2,26.2	9.3,9.3 11,11
		16,17	11			2
7MMV9U	GlobalFiler™ (STRMix)					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16	X,Y 11
		21,23			23.2,26.2	9.3 11
		16,17	11			2

TABLE 1

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

Item 2 - STR Results

7P6QDQ	PowerPlex® Fusion					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23	10	11,12		9.3
		16,17	11			11
7QKVA4	Veri Filer Plus					
		11,16	23,25	10,14	14,14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16,16	X,Y
		21,23	10,10	11,12		9.3,9.3
		16,17				2
7RWRGT	Investigator® 24plex					
		11,16	23,25	10,14	14,14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16,16	X,Y
		21,23			23.2,26.2	9.3,9.3
		16,17	11			11,11
7VURTQ	GlobalFiler™					
		11,16	23,25	10,14	14,14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16,16	X,Y
		21,23			23.2,26.2	9.3,9.3
		16,17	11			11,11
						2
87T8GM	GlobalFiler™					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23			23.2,26.2	9.3
		16,17	11			11
						2
8ARHCM	GlobalFiler™ (STRmix)					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23			23.2,26.2	9.3
		16,17	11			11
						2
8EKM47	GlobalFiler™ Express					
		11,16	23,25	10,14	14,14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16,16	X,Y
		21,23			23.2,26.2	9.3,9.3
		16,17	11			11,11
						2

TABLE 1

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

Item 2 - STR Results

8RVMTQ	GlobalFiler™					
		11,16	23,25	10,14	14,14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16,16	X,Y
		21,23			23.2,26.2	9.3,9.3
		16,17	11			2
8T8RDM	GlobalFiler™					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23			23.2,26.2	9.3
		16,17	11			2
8WLR9U	PowerPlex® Fusion 6C					
		11,16	23,25	10,14	14,14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16,16	X,Y
		21,23	10,10	11,12	23.2,26.2	9.3,9.3
		16,17	11,11	17,17	21,21	
8XZW7R	GlobalFiler™					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23			23.2,26.2	9.3
		16,17	11			2
98HUA3	PowerPlex® Fusion 6C					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23	10	11,12	23.2,26.2	9.3
		16,17	11	17	21	
9DBWFM	PowerPlex® Fusion 5C					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23	10	11,12		9.3
		16,17	11			
9JCBY4	GlobalFiler™					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23			23.2,26.2	9.3
		16,17	11			2

TABLE 1

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

Item 2 - STR Results

9MZ4BT	PowerPlex® Fusion 5c					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
9UA9M3	GlobalFiler™ Express					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
9XY9N	GlobalFiler™					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
A3JXZ2	GlobalFiler™					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
AD7ETV	GlobalFiler™ Express					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
AJ7E7J	PowerPlex® Fusion 5C					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23	10,10	11,12		9.3,9.3	11,11
	16,17	11				
AKNNGR	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				

TABLE 1

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

## Item 2 - STR Results

B24293	GlobalFiler™ Express					
		11,16	23,25	10,14	14,14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16,16	X,Y
		21,23			23.2,26.2	9.3,9.3
		16,17	11			2
B4UHNP	GlobalFiler™ (STRmix)					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23			23.2,26.2	9.3
		16,17	11			2
B73C7M	PowerPlex® Fusion 5C					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23	10	11,12		9.3
		16,17	11			
B99FTQ	PowerPlex® Fusion					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23	10	11,12		9.3
		16,17	11			
BBBXRY	PowerPlex® Fusion 5C					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23	10	11,12		9.3
		16,17	11			
BBVCKH	PowerPlex® Fusion 5C					
		11,16	23,25	10,14	14,14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16,16	X,Y
		21,23	10,10	11,12		9.3,9.3
		16,17	11			
BHD7XM	GlobalFiler™					
		11,16	23,25	10,14	14,14	11,13
2		9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16,16	X,Y
		21,23	N/A	N/A	23.2,26.2	9.3,9.3
		16,17	11	N/A	N/A	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

BJMRAM	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
BLE9MN	GlobalFiler™ (STRmix)					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
C94ZXH	PowerPlex® Fusion 6C					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23	10,10	11,12	23.2,26.2	9.3,9.3	11,11
	16,17	11	17	21		
CAT4RP	GlobalFiler™ Casework					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
CAUYCF	GlobalFiler™					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
CDTEMP	PowerPlex® Fusion 6C					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23	10,10	11,12	23.2,26.2	9.3,9.3	11,11
	16,17	11	17	21		
CJJPWM	GlobalFiler™					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	

TABLE 1

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

Item 2 - STR Results

CQ7XHL	GlobalFiler™					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
CVD7LN	PowerPlex® Fusion 6C					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12	23.2,26.2	9.3	11
	16,17	11	17	21		
CZR9LL	GlobalFiler™ PCR Amplification Kit					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
DE9EGL	GlobalFiler™ Express					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
DW2YYJ	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
DXVP6X	GlobalFiler™					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
DZMJ4M	GlobalFiler™					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	



TABLE 1

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

## Item 2 - STR Results

DZPTWR	PowerPlex® Fusion 5C					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
E2D2KE	PowerPlex® Fusion 5C					
	11,16	23,25	10,14	14,14	11,13	-
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23	10,10	11,12	-	9.3,9.3	11,11
	16,17	11	-	-	-	
EFWRJG	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
EGPHPV	GlobalFiler™ (STRmix)					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
EJUBLF	PowerPlex® Fusion 5C					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23	10,10	11,12		9.3,9.3	11,11
	16,17	11				
ENBWRN	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
ENQWDH	PowerPlex® Fusion 5C					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				

TABLE 1

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

Item 2 - STR Results

EPKMJW	GlobalFiler™					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
F42HBL	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
F6N4XG	GlobalFiler™ Express					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
FCR4GJ	GlobalFiler™ (STRmix)					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
FDZXWW	GlobalFiler™ Express					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
FEW9VK	GlobalFiler™					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
FKLQBG	PowerPlex® Fusion 5C					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				

TABLE 1

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

## Item 2 - STR Results

FM8BFL	PowerPlex® Fusion 6C					
	11,16	23,25	8,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23	10,10	11,12	23.2,26.2	9.3,9.3	11,11
	16,17	11,11	17,17	21,21		
FMAZHX	GlobalFiler™ Express					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
FNJABU	GlobalFiler™					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
FRHL7U	GlobalFiler™					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
FUA3LG	GlobalFiler™					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
G9NMJF	GlobalFiler™					
	11,16	23,25	10,14	14,14	11,13	N/A
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23	N/A	N/A	23.2,26.2	9.3,9.3	11,11
	16,17	11	N/A	N/A	2	
GBTXEB	GlobalFiler™					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	

TABLE 1

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

Item 2 - STR Results

H3GJ7M	GlobalFiler™					
		11,16	23,25	10,14	14,14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16,16	X,Y 11,11
		21,23			23.2,26.2	9.3,9.3 11,11
		16,17	11			2
H3XFYL	PowerPlex® Fusion					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16	X,Y 11
		21,23	10	11,12		9.3 11
		16,17	11			
HBUBWK	PowerPlex® Fusion					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16	X,Y 11
		21,23	10	11,12		9.3 11
		16,17	11			
HJ4GBF	GlobalFiler™					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16	X,Y 11
		21,23			23.2,26.2	9.3 11
		16,17	11			2
HWM4HR	GlobalFiler™					
		11,16	23,25	10,14	14,14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16,16	X,Y 11,11
		21,23			23.2,26.2	9.3,9.3 11,11
		16,17	11			2
J2WGZQ	GlobalFiler™					
		11,16	23,25	10,14	14,14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16,16	X,Y 11,11
		21,23			23.2,26.2	9.3,9.3 11,11
		16,17	11			2
J63MEK	PowerPlex® Fusion					
		11,16	23,25	10,14	14	11,13
2		9,12	13,16	13,14	18,21	8,13 11,13
		13,19	13.2,14	28,29	16	X,Y 11
		21,23	10	11,12		9.3 11
		16,17	11			

TABLE 1

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

Item 2 - STR Results

J6EYVG	PowerPlex® Fusion 6C					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12	23.2,26.2	9.3	11
	16,17	11	17	21		
J84NEG	PowerPlex® Fusion 5C					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
JABMDA	PowerPlex® Fusion 5C					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23	10,10	11,12		9.3,9.3	11,11
	16,17	11				
JTLEEQ	GlobalFiler™					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
K2TEPC	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
K4JFTF	GlobalFiler™					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
K8JNZB	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				

TABLE 1

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

Item 2 - STR Results

KJD6PC	PowerPlex® Fusion 5C					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
KLYPUF	PowerPlex® Fusion 5c, Verifiler Plus					
	11,16	23,25	10,14	14	11,13	11,14
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11			2	
KP2BJK	GlobalFiler™ Express					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
KZK6XF	GlobalFiler™					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
L7MVFC	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
L8DWJE	PowerPlex® Fusion 6C (STRmix)					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12	23.2,26.2	9.3	11
	16,17	11	17	21		
L9L79Q	GlobalFiler™ Express					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	

TABLE 1

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

Item 2 - STR Results

LLYRWD	GlobalFiler™ (STRMIX)					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
LNMH7B	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
LPFU4H	PowerPlex® Fusion 5C					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
LRZKT7	GlobalFiler™ Express					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
LXBZWJ	PowerPlex® Fusion 5C					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
MQ7W9P	GlobalFiler™ Express					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
MVJZW7	GlobalFiler™ (STRmix)					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	

TABLE 1

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

Item 2 - STR Results

N6N8C7	GlobalFiler™ (STRmix)					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
NDFM2B	GlobalFiler™					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
NJL2JE	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
NM7979	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
NNYYCM	GlobalFiler™					
	11,16	23,25	10,14	14,14	11,13	..
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23	..	..	23.2,26.2	9.3,9.3	11,11
	16,17	11	..	..	2	
NTRJHC	GlobalFiler™ (STRMix)					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
P2VUP7	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				



TABLE 1

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

Item 2 - STR Results

P6TDPJ	Investigator® 24plex GO!					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11				
PHHBT3	PowerPlex® Fusion 5C					
	11,16	23,25	10,14	14,14	11,13	-
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23	10,10	11,12	-	9.3,9.3	11,11
	16,17	11	-	-	-	
PN9MQK	GlobalFiler™					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
PYUAY9	GlobalFiler™					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
PZKT2L	GlobalFiler™					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
Q2CRTD	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
Q9DKP7	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				

TABLE 1

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

Item 2 - STR Results

QPLZ89	GlobalFiler™ (STRmix)					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
RAYNW4	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
RDL938	GlobalFiler™					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
RFRCPB	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
RGHR67	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
RQB3E2	PowerPlex® Fusion 5C					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23	10,10	11,12		9.3,9.3	11,11
	16,17	11				
RRJFW3	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				

TABLE 1

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

Item 2 - STR Results

RXVNL8	PowerPlex® Fusion 6C, GlobalFiler™ Express					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12	23.2,26.2	9.3	11
	16,17	11	17	21	2	
R4Y4H2K	GlobalFiler™ Express					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
R9YZTY9	PowerPlex® Fusion 6C					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12	23.2,26.2	9.3	11
	16,17	11	17	21		
T27YZT2	PowerPlex® Fusion 6C					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23	10,10	11,12	23.2,26.2	9.3,9.3	11,11
	16,17	11	17	21		
T9HDFX9	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
T26VXC26	GlobalFiler™					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
T8LW8LRG	GlobalFiler™					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	

TABLE 1

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

Item 2 - STR Results

TWTD3A	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
TXND68	PowerPlex® Fusion 6C					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12	23.2,26.2	9.3	11
	16,17	11	17	21		
TYJW89	GlobalFiler™					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
UET6KH	GlobalFiler™					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
UHTFGH	GlobalFiler™					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
UJ29A4	GlobalFiler™					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
UL6J6Y	PowerPlex® Fusion 5C					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23	10,10	11,12		9.3,9.3	11,11
	16,17	11				

TABLE 1

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

Item 2 - STR Results

UVDVL3	PowerPlex® Fusion 5C					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
UVYY84	GlobalFiler™					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
UWPBQA	GlobalFiler™					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
UZ9PGH	GlobalFiler™ Express					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
V2XBPZ	PowerPlex® Fusion 6C					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23	10,10	11,12	23.2,26.2	9.3,9.3	11,11
	16,17	11	17	21		
V8PBU2	GlobalFiler™ Express					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
VBQ8N3	GlobalFiler™					
	11,16	23,25	10,14	14,14	11,13	NA
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23	NA	NA	23.2,26.2	9.3,9.3	11,11
	16,17	11	NA	NA	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

VDQYJD	Investigator® 24plex QS					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11				
VEMD77	PowerPlex® Fusion 6C					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23	10,10	11,12	23.2,26.2	9.3,9.3	11,11
	16,17	11	17	21		
VLLW7G	GlobalFiler™ Express					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
VMGXA7	PowerPlex® 5C					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
W2WJ76	PowerPlex® Fusion 5C					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
WAC3Q6	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
WCT7YE	GlobalFiler™					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	

TABLE 1

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

Item 2 - STR Results

WTXZL2	GlobalFiler™					
		11,16	23,25	10,14	14,14	11,13
	2	9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16,16	X,Y
		21,23			23.2,26.2	9.3,9.3
	16,17	11			2	
WUCYP4	PowerPlex®					
		11,16	23,25	10,14	14,14	11,13
	2	9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16,16	X,Y
		21,23	10,10	11,12	23.2,26.2	9.3,9.3
	16,17	11	17	21		
XEY7YC	GlobalFiler™					
		11,16	23,25	10,14	14,14	11,13
	2	9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16,16	X,Y
		21,23			23.2,26.2	9.3,9.3
	16,17	11			2	
XU938Z	NGM SElect					
		11,16	23,25	10,14	[12.2],14,14	
	2		13,16	13,14	18,21	11,13
		13,19	13.2,14	28,29	16,16	X,Y
		21,23			23.2,26.2	
	16,17					
XWWU33	PowerPlex® Fusion 5C					
		11,16	23,25	10,14	14	11,13
	2	9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23	10	11,12		9.3
	16,17	11				
XYJFPY	GlobalFiler™ Express					
		11,16	23,25	10,14	14	11,13
	2	9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23			23.2,26.2	9.3
	16,17	11			2	
XZHE88	PowerPlex® Fusion					
		11,16	23,25	10,14	14	11,13
	2	9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23	10	11,12		9.3
	16,17	11				

TABLE 1

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

Item 2 - STR Results

XZUU3D	GlobalFiler™					
		11,16	23,25	10,14	14,14	11,13
	2	9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16,16	X,Y
		21,23			23.2,26.2	9.3,9.3
	16,17	11			2	
Y8ATBW	PowerPlex® Fusion 5C					
		11,16	23,25	10,14	14	11,13
	2	9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23	10	11,12		9.3
	16,17	11				
Y94JGB	PowerPlex® Fusion 5C					
		11,16	23,25	10,14	14	11,13
	2	9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23	10	11,12		9.3
	16,17	11				
YP9D4X	GlobalFiler™ Express					
		11,16	23,25	10,14	14	11,13
	2	9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23			23.2,26.2	9.3
	16,17	11			2	
YPRRFU	GlobalFiler™					
		11,16	23,25	10,14	14	11,13
	2	9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23			23.2,26.2	9.3
	16,17	11			2	
YYFMGV	GlobalFiler™					
		11,16	23,25	10,14	14	11,13
	2	9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23			23.2,26.2	9.3
	16,17	11			2	
YYXC2B	PowerPlex® Fusion 6C					
		11,16	23,25	10,14	14	11,13
	2	9,12	13,16	13,14	18,21	8,13
		13,19	13.2,14	28,29	16	X,Y
		21,23	10	11,12	23.2,26.2	9.3
	16,17	11	17	21		



TABLE 1

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

YZ9DMA	GlobalFiler™					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
Z7VLMU	GlobalFiler™ (STRmix)					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11			2	
Z7XY64	GlobalFiler™					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11			2	
Z93799	Investigator® 24plex GO!					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23			23.2,26.2	9.3	11
	16,17	11				
ZJ7Y4V	PowerPlex® Fusion 6C					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23	10,10	11,12	23.2,26.2	9.3,9.3	11,11
	16,17	11	17	21		
ZLND8V	PowerPlex® Fusion 5C					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				
ZMKE9Z	PowerPlex® Fusion					
	11,16	23,25	10,14	14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16	X,Y	11
	21,23	10	11,12		9.3	11
	16,17	11				

TABLE 1

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

Item 2 - STR Results

ZNBXDY	Investigator® 24plex					
	11,16	23,25	10,14	14,14	11,13	
2	9,12	13,16	13,14	18,21	8,13	11,13
	13,19	13.2,14	28,29	16,16	X,Y	11,11
	21,23			23.2,26.2	9.3,9.3	11,11
	16,17	11				

TABLE 1

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

Item 3 - STR Results

27DFZW	GlobalFiler™					
	17,3,17.3	18,25	13,14	17,17	9,11	N/A
	3 11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	N/A	N/A	26.2,26.2	6,9	8,8
	16,18		N/A	N/A		
2NUZKZ	PowerPlex® 5C					
	17.3	18,25	13,14	17	9,11	--
	3 11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20	--	6,9	8
	16,18	--	--	--	--	
2NX7YW	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	na
	3 11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	na	na	26.2,26.2	6,9	8,8
	16,18	na	na	na	na	
2QJP6Z	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
	3 11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
33MC9U	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
	3 11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
3AMYEV	Identifiler® Plus					
		18,25		17,17	9,11	
	3 11,13	14,16			8,12	10,13
	14,17	12,14	30,32.2		X,X	12,12
	23,23				6,9	8,8
	16,18					
3BXERA	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
	3 11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	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 3 - STR Results

3CB7KQ	GlobalFiler™ (STRmix)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12
	23			26.2	6,9	8
	16,18					
3DQQQ3	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	-				
3E4HGY	PowerPlex® Fusion 5C					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
3VN9GX	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
42CXTV	Identifiler® Plus					
		18,25		17,17	9,11	
3	11,13	14,16			8,12	10,13
	14,17	12,14	30,32.2		X,X	12,12
	23,23				6,9	8,8
	16,18					
4JAH8U	PowerPlex® Fusion 5C, QIAGEN HDplex Kit					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18					
66ATY2	GlobalFiler™ (STRmix)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18	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 3 - STR Results

6G2F6W	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
6Q3KXP	GlobalFiler™					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
6RMJCV	GlobalFiler™ (STRmix™)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
6YH769	GlobalFiler™					
	17,3,17,3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NR			NR	
78BXRT	GlobalFiler™					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12
	23			26.2	6,9	8
	16,18	NM			NM	
7HTVUX	GlobalFiler™					
	17,3,17,3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NR			NR	
7MMV9U	GlobalFiler™ (STRMix)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					

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 3 - STR Results

7P6QDQ	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
7QKVA4	VeriFiler Plus					
	17.3,17.3	18,25	13,14	17,17	9,11	19,20
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23	10,12	13,20		6,9	8,8
	16,18					
7RWRGT	Investigator® 24plex (STRmix)					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	N/A				
7VURTQ	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
87T8GM	GlobalFiler™ (STRmix)					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
8ARHCM	GlobalFiler™ (STRmix)					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12
	23			26.2	6,9	8
	16,18					
8EKM47	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	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 3 - STR Results

8RVMTQ	GlobalFiler™					
	17,3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
8T8RDM	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
8WLR9U	PowerPlex® Fusion 6C					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20	26.2	6,9	8
	16,18					
8XZW7R	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12
	23			26.2	6,9	8
	16,18	NM			NM	
98HUA3	PowerPlex® Fusion 6C (STRmix)					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20	26.2	6,9	8
	16,18					
9DBWFM	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
9JCBY4	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					

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 3 - STR Results

9MZ4BT	PowerPlex® Fusion 5c					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
9UA9M3	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NR			NR	
9XY9N	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
A3JXZ2	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
AD7ETV	GlobalFiler™ (STRmix)					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
AJ7E7J	PowerPlex® Fusion 5C					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23	10,12	13,20		6,9	8,8
	16,18					
AKNNGR	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					



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 3 - STR Results

B24293	GlobalFiler™					
	17,3,17,3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NR			NR	
B4UHNP	GlobalFiler™ (STRmix)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
B73C7M	PowerPlex® Fusion 5C					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
B99FTQ	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
BBBXRY	PowerPlex® Fusion 5C					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
BBVCKH	PowerPlex® Fusion 5C					
	17,3,17,3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20		6,9	8,8
	16,18					
BHD7XM	GlobalFiler™					
	17,3,17,3	18,25	13,14	17,17	9,11	N/A
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	N/A	N/A	26.2,26.2	6,9	8,8
	16,18	N/A	N/A	N/A	N/A	

TABLE 1

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

Item 3 - STR Results

BJMRAM	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
BLE9MN	GlobalFiler™ (STRmix)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
C94ZXH	PowerPlex® Fusion 6C (STRmix)					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18					
CAT4RP	GlobalFiler™ Casework					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
CAUYCF	GlobalFiler™					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
CDTEMP	PowerPlex® Fusion 6C					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18					
CJJPWM	GlobalFiler™					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12
	23			26.2	6,9	8
	16,18	NM			NM	

TABLE 1

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

Item 3 - STR Results

CQ7XHL	GlobalFiler™					
	17,3,17,3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
CVD7LN	PowerPlex® Fusion 6C (mRMP by Familis3)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12
	23	10,12	13,20	26.2	6,9	8
	16,18					
CZR9LL	GlobalFiler™ PCR Amplification Kit					
	17,3,17,3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
DW2YYJ	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
DZMJ4M	GlobalFiler™					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12
	23			26.2	6,9	8
	16,18	NM			NM	
DZPTWR	PowerPlex® Fusion 5C					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
E2D2KE	PowerPlex® Fusion 5C					
	17,3,17,3	18,25	13,14	17,17	9,11	-
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20	-	6,9	8,8
	16,18	-	-	-	-	

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 3 - STR Results

EFWRJG	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
EGPHPV	GlobalFiler™ (STRmix)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
EJUBLF	PowerPlex® Fusion 5C					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23	10,12	13,20		6,9	8,8
	16,18					
ENBWRN	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
ENQWDH	PowerPlex® Fusion 5C					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
EPKMJW	GlobalFiler™					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18	NR			NR	
F42HBL	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					

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 3 - STR Results

F6N4XG	GlobalFiler™ (STRmix)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
FCR4GJ	GlobalFiler™ (STRmix)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
FDZXWW	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NR			NR	
FEW9VK	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
FKLQBG	PowerPlex® Fusion 5C					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
FM8BFL	PowerPlex® Fusion 6C					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18					
FMAZHX	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	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 3 - STR Results

FNJABU	GlobalFiler™ (STRmix)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
FRHL7U	GlobalFiler™ (STRmix)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
FUA3LG	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
G9NMJF	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	N/A
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23	N/A	N/A	26.2,26.2	6,9	8,8
	16,18	N/A	N/A	N/A	N/A	
GBTXEB	GlobalFiler™					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
H3GJ7M	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NR			NR	
H3XFYL	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					

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 3 - STR Results

HBUBWK	PowerPlex® Fusion					
3	17,3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
HJ4GBF	GlobalFiler™					
3	17,3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
HWM4HR	GlobalFiler™					
3	17.3,17.3	18,25	13,14	17,17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	--			--	
J2WGZQ	GlobalFiler™ (STRmix)					
3	17.3,17.3	18,25	13,14	17,17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
J63MEK	PowerPlex® Fusion					
3	17,3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
J6EYVG	PowerPlex® Fusion 6C (STRmix 2.9)					
3	17,3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20	26.2	6,9	8
	16,18					
J84NEG	PowerPlex® Fusion 5C					
3	17,3	18,25	13,14	17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					

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 3 - STR Results

JABMDA	PowerPlex® Fusion 5C					
	17,3,17,3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20		6,9	8,8
	16,18					
JTLEEQ	GlobalFiler™ (STRmix)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
K2TEPC	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
K4JFTF	GlobalFiler™					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12
	23			26.2	6,9	8
	16,18	NM			NM	
K8JNZB	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
KJD6PC	PowerPlex® Fusion 5C					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
KLYPUF	PowerPlex® Fusion 5c, Verifiler Plus					
	17,3	18,25	13,14	17	9,11	19,20
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					



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 3 - STR Results

KP2BJK	GlobalFiler™ (STRmix)						
		17,3	18,25	13,14	17	9,11	
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X	12
		23			26.2	6,9	8
	16,18	no results			no results		
KZK6XF	GlobalFiler™						
		17,3	18,25	13,14	17	9,11	
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X,X	12
		23			26.2	6,9	8
	16,18	NM			NM		
L7MVFC	PowerPlex® Fusion						
		17,3	18,25	13,14	17	9,11	
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X	12
		23	10,12	13,20		6,9	8
	16,18	NR					
L8DWJE	PowerPlex® Fusion 6C (STRmix)						
		17,3	18,25	13,14	17	9,11	
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X	12
		23	10,12	13,20	26.2	6,9	8
	16,18						
L9L79Q	GlobalFiler™						
		17,3,17,3	18,25	13,14	17,17	9,11	
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X,X	12,12
		23,23			26.2,26.2	6,9	8,8
	16,18	No Result			No Result		
LLYRWD	GlobalFiler™ (STRMIX)						
		17,3	18,25	13,14	17	9,11	
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X	12
		23			26.2	6,9	8
	16,18						
LNMH7B	PowerPlex® Fusion						
		17,3	18,25	13,14	17	9,11	
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X	12
		23	10,12	13,20		6,9	8
	16,18						

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 3 - STR Results

LPFU4H	PowerPlex® Fusion 5C					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
LRZKT7	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	No results			No results	
LXBZWJ	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
MQ7W9P	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NR			NR	
MVJZW7	GlobalFiler™ (STRmix)					
	17.3,17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
N6N8C7	GlobalFiler™ (STRmix)					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
NDFM2B	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12
	23			26.2	6,9	8
	16,18	NM			NM	

TABLE 1

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

## Item 3 - STR Results

NJL2JE	PowerPlex® Fusion						
	17.3	18,25	13,14	17	9,11		
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X	12
		23	10,12	13,20		6,9	8
	16,18						
NM7979	PowerPlex® Fusion						
	17.3	18,25	13,14	17	9,11		
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X	12
		23	10,12	13,20		6,9	8
	16,18						
NNYYCM	GlobalFiler™						
	17.3,17.3	18,25	13,14	17,17	9,11	..	
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X,X	12,12
		23,23	..	..	26.2,26.2	6,9	8,8
	16,18	..	..	..	..		
NTRJHC	GlobalFiler™ (STRMix)						
	17.3	18,25	13,14	17	9,11		
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X	12
		23			26.2	6,9	8
	16,18						
P2VUP7	PowerPlex® Fusion						
	17.3	18,25	13,14	17	9,11		
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X	12
		23	10,12	13,20		6,9	8
	16,18						
P6TDPJ	Investigator® 24plex QS						
	17.3	18,25	13,14	17	9,11		
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X	12
		23			26.2	6,9	8
	16,18						
PHHBT3	PowerPlex® Fusion 5C						
	17.3,17.3	18,25	13,14	17,17	9,11	-	
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X,X	12,12
		23,23	10,12	13,20	-	6,9	8,8
	16,18	-	-	-	-		

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 3 - STR Results

PN9MQK	GlobalFiler™ (STRmix)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
PYUAY9	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
PZKT2L	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
Q2CRTD	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
Q9DKP7	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
QPLZ89	GlobalFiler™ (STRmix)					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
RAYNW4	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					

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 3 - STR Results

RDL938	GlobalFiler™					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12
	23			26.2	6,9	8
	16,18	NM			NM	
RFRCPB	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
RGHR67	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	NR				
RQB3E2	PowerPlex® Fusion 5C					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20		6,9	8,8
	16,18					
RRJFW3	PowerPlex® Fusion					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
RXVNL8	PowerPlex® Fusion 6C (STRmix v2.6)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20	26.2	6,9	8
	16,18	NID	NID	NID		
RY4H2K	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	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 3 - STR Results

RYZTY9	PowerPlex® Fusion 6C (STRmix v2.9)						
		17,3	18,25	13,14	17	9,11	
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X	12
		23	10,12	13,20	26.2	6,9	8
	16,18						
T7YZT2	PowerPlex® Fusion 6C (STRmix)						
		17.3,17.3	18,25	13,14	17,17	9,11	
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X,X	12,12
		23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18						
THDFX9	PowerPlex® Fusion						
		17.3	18,25	13,14	17	9,11	
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X	12
		23	10,12	13,20		6,9	8
	16,18						
TVXC26	GlobalFiler™						
		17.3	18,25	13,14	17	9,11	
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X	12
		23			26.2	6,9	8
	16,18						
TW8LRG	GlobalFiler™						
		17.3,17.3	18,25	13,14	17,17	9,11	
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X,X	12,12
		23,23			26.2,26.2	6,9	8,8
	16,18						
TWT3A	PowerPlex® Fusion						
		17.3	18,25	13,14	17	9,11	
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X	12
		23	10,12	13,20		6,9	8
	16,18						
TXND68	PowerPlex® Fusion 6C (STRmix v. 2.9)						
		17.3	18,25	13,14	17	9,11	
	3	11,13	14,16	14,16	15,18	8,12	10,13
		14,17	12,14	30,32.2	15,16	X	12
		23	10,12	13,20	26.2	6,9	8
	16,18						

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 3 - STR Results

TYJW89	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
UET6KH	GlobalFiler™ (STRmix)					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
UHTFGH	GlobalFiler™					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
UJ29A4	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
UL6J6Y	PowerPlex® Fusion 5C					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20		6,9	8,8
	16,18					
UVDVL3	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
UVYY84	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					

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 3 - STR Results

UWPBQA	GlobalFiler™					
	17,3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NR			NR	
UZ9PGH	GlobalFiler™					
	17,3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	No Result			No Result	
V2XBPZ	PowerPlex® Fusion 6C (STRmix)					
	17,3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18					
V8PBU2	GlobalFiler™ (STRmix)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
VBQ8N3	GlobalFiler™					
	17,3,17.3	18,25	13,14	17,17	9,11	NA
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	NA	NA	26.2,26.2	6,9	8,8
	16,18	NA	NA	NA	NA	
VDQYJD	Investigator® 24plex qs					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18	-				
VEMD77	PowerPlex® Fusion 6C (EuroForMix)					
	17,3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18					



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 3 - STR Results

VLLW7G	GlobalFiler™					
	17,3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NR			NR	
VMGXA7	PowerPlex® 5C					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
W2WJ76	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
WAC3Q6	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
WCT7YE						
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
WTXZL2	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
WUCYP4	PowerPlex®					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18					

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 3 - STR Results

XE77YC	GlobalFiler™					
	17,3,17.3	18,25	13,14	17,17	9,111	
	3	11,13	14,16	14,16	15,18	8,12 10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
XU938Z	NGM SElect					
	17,3,17.3	18,25	13,14	17,17		
	3	14,16	14,16	15,18		10,13
	14,17	12,14	30,32.2	15,16	X,X	
	23,23			26.2,26.2	6,9	
	16,18					
XWWU33	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
	3	11,13	14,16	14,16	15,18	8,12 10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
XYJFPY	GlobalFiler™ (STRmix)					
	17.3	18,25	13,14	17	9,11	
	3	11,13	14,16	14,16	15,18	8,12 10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
XZHE88	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
	3	11,13	14,16	14,16	15,18	8,12 10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18	-				
Y8ATBW	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
	3	11,13	14,16	14,16	15,18	8,12 10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
Y94JGB	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
	3	11,13	14,16	14,16	15,18	8,12 10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					

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 3 - STR Results

YP9D4X	GlobalFiler™ (STRmix)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18	NR			NR	
YPRRFU	GlobalFiler™ (STRmix)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
YYFMGV	GlobalFiler™ (STRmix)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12
	23			26.2	6,9	8
	16,18					
YYXC2B	PowerPlex® Fusion 6C (STRmix v2.7)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20	26.2	6,9	8
	16,18					
YZ9DMA	GlobalFiler™					
	17,3,17,3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
Z7VLMU	GlobalFiler™ (STRmix)					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
Z7XY64	GlobalFiler™					
	17,3,17,3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	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 3 - STR Results

Z93799	Investigator® 24plex QS					
	17,3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23			26.2	6,9	8
	16,18					
ZJ7Y4V	PowerPlex® Fusion 6C					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18					
ZLND8V	PowerPlex® Fusion 5C					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
ZMKE9Z	PowerPlex® Fusion					
	17.3	18,25	13,14	17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X	12
	23	10,12	13,20		6,9	8
	16,18					
ZNBXDY	Investigator® 24plex (STRMix)					
	17.3,17.3	18,25	13,14	17,17	9,11	
3	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	XX	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18	NA				

TABLE 1

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

DXVP6X	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					
XZUU3D	GlobalFiler™					
	17.3,17.3	18,25	13,14	17,17	9,11	
	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					

TABLE 1

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

Item 3sp - STR Results

DXVP6X	GlobalFiler™					
	17,3,17,3	18,25	13,14	17,17	9,11	
3sp	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23			26.2,26.2	6,9	8,8
	16,18					

XZUU3D	GlobalFiler™					
3sp						

TABLE 1

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

4JAH8U	PowerPlex® Fusion 5C, QIAGEN HDplex Kit					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20	15,26.2,28.2	6,9	8,10
	16,17,18	10				
6Q3KXP	GlobalFiler™					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
4	9,11,[13]	13,[14],15,[16]	13,14,[16]	[15],[18],19,21	[8],11,12	8,[10],13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15	X,Y	10,11,[12]
	20,[23],23.2			15,[26.2],28.2	6,9	8,10
	16,17,[18]	10			2	
7QKVA4	VeriFiler Plus					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	12,18,19,20
4	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18				2	
C94ZXH	PowerPlex® Fusion 6C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4	9,11,13	13,14,15,16	13,14,16	15,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20	15,26.2,28.2	6,9	8,10
	16,17,18	10	18	19		
CAT4RP	GlobalFiler™ Casework					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
CVD7LN	PowerPlex® Fusion 6C (LRmixStudio, LabRetriever, DNAMView, EFM)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20	15,26.2,28.2	6,9	8,10
	16,17,18	10	18	19		
CZR9LL						
	14,[17.3],18.3	[18],20,[24],25	11,[13],14	15,[17],18	9,11	
4	9,11,[13]	13,[14],15,[16]	13,14,[16]	[15],18,19,21	[8],11,12	8,[10],13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15,[16]	X,Y	10,11,[12]
	20,[23],23.2			15,[26.2],28.2	6,9	8,10
	16,17,[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

FEW9VK	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
	4 9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10		2		
KLYPUF	PowerPlex® Fusion 5c, Verifiler Plus					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	12,18,20
	4 9,11,13	13,14,15,16	13,14,16	15,19,21	8,11,12	8,10,13
	14,17,18	12,13	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,13	8,12,13,20		6,9	8,10
	16,17,18	10		2		
LXBZJW	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
	4 9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
T7YZT2	PowerPlex® Fusion 6C					
	14,18.3	18,20,25	11,14	15,17,18	9,11	
	4 9,11,13	13,15,16	13,14,16	15,19,21	8,11,12	8,13
	14,17,18	12,13,14	30,31.2,32.2	15	X,Y	10,11,12
	20,23.2	10,12,13	8,12,13,20	15,26.2,28.2	6,9	8,10
	16,17,18	10	18	19		
V2XBPZ	PowerPlex® Fusion 6C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
	4 9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20	15,26.2,28.2	6,9	8,10
	16,17,18	10	18	19		



TABLE 1

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

## Item 4e - STR Results

27DFZW	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	N/A
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	N/A	N/A	15,26.2,28.2	6,9	8,10
	16,17,18	10	N/A	N/A	2	
2NUZKZ	PowerPlex® 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	--
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20	--	6,9	8,10
	16,17,18	10	--	--	--	
2NX7YW	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	na
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	na	na	15,26.2,28.2	6,9	8,10
	16,17,18	10	na	na	2	
2QJP6Z	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
33MC9U	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
3AMYEV	Identifiler® Plus					
		18,20,25		15,17,18	9,11	
4e	9,11,13	13,14,15,16			8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2		X,Y	10,11,12
	20,23,23.2				6,9	8,10
	16,17,18					
3BXERA	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	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

3CB7KQ	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
3DQQQ3	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
3E4HGY	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
3VN9GX	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
42CXTV	Identifiler® Plus					
		18,20,25		15,17,18	9,11	
4e	9,11,13	13,14,15,16			8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2		X,Y	10,11,12
	20,23,23.2				6,9	8,10
	16,17,18					
66ATY2	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
6G2F6W	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	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 4e - STR Results

6RMJCV	GlobalFiler™ (STRmix™)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
6YH769	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
78BXRT	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
7HTVUX	GlobalFiler™					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
4e	9,11,[13]	13,[14],15,[16]	13,14,[16]	[15],[18],19,21	[8],11,12	8,[10],13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15,[16]	X,Y	10,11,[12]
	20,[23],23.2			15,[26.2],28.2	6,[9]	8,10
	16,17,[18]	10			2	
7MMV9U	GlobalFiler™ (STRMix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
7P6QDQ	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
7RWRGT	Investigator® 24plex (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	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 4e - STR Results

7VURTQ	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
87T8GM	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
8ARHCM	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
8EKM47	GlobalFiler™					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
4e	9,11,[13]	13,[14],15,[16]	13,14,[16]	[15],[18],19,21	[8],11,12	8,[10],13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15,15,[16]	X,Y	10,11,[12]
	20,[23],23.2			15,[26.2],28.2	6,9	8,10
	16,17,[18]	10			2	
8RVMTQ	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,12,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
8T8RDM	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
8WLR9U	PowerPlex® Fusion 6C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20	15,26.2,28.2	6,9	8,10
	16,17,18	10	18	19		

TABLE 1

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

## Item 4e - STR Results

8XZW7R	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
98HUA3	PowerPlex® Fusion 6C (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20	15,26.2,28.2	6,9	8,10
	16,17,18	10	18	19		
9DBWFM	PowerPlex® Fusion 5C (TrueAllele)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
9JCBY4	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
9MZ4BT	PowerPlex® Fusion 5c (True Allele)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
9UA9M3	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
9XY9N	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	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

A3JXZ2	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
AD7ETV	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
AJ7E7J	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
AKNNGR	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
B24293	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
B4UHNP	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
B73C7M	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	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 4e - STR Results

B99FTQ	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
BBBXRY	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
BBVCKH	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
BHD7XM	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	N/A
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	N/A	N/A	15,26.2,28.2	6,9	8,10
	16,17,18	10	N/A	N/A	2	
BJMRAM	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
BLE9MN	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
CAUYCF	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	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

CDTEMP	PowerPlex® Fusion 6C					
	17,3,17.3	18,25	13,14	17,17	9,11	
4e	11,13	14,16	14,16	15,18	8,12	10,13
	14,17	12,14	30,32.2	15,16	X,X	12,12
	23,23	10,12	13,20	26.2,26.2	6,9	8,8
	16,18					
CJJPWM	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
CQ7XHL	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
CZR9LL	GlobalFiler™ PCR Amplification Kit					
	14,17.3,18.3	18,20,24,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
DW2YYJ	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
DXVP6X	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
DZMJ4M	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	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

DZPTWR	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
E2D2KE	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	-
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20	-	6,9	8,10
	16,17,18	10	-	-	-	
EFWRJG	PowerPlex® Fusion (TrueAllele)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
EGPHPV	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
EJUBLF	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
ENBWRN	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
ENQWDH	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	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 4e - STR Results

EPKMJW	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
F42HBL	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
F6N4XG	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
FCR4GJ	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
FDZXWW	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
FKLQBG	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
FM8BFL	PowerPlex® Fusion 6C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20	15,26.2,28.2	6,9	8,10
	16,17,18	10,10	18,18	19,19		

TABLE 1

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

## Item 4e - STR Results

FMAZHX	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
	4e 9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10		2		
FNJABU	GlobalFiler™ (STRMix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
	4e 9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10		2		
FRHL7U	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
	4e 9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10		2		
FUA3LG	GlobalFiler™ (STRmix v2.7)					
	14,[17.3,17.3],18.3	[18],20,25,[25]	11,[13],14,[14]	15,[17,17],18	9,[9],11,[11]	
	4e 9,11,[11,13]	13,[14],15,[16]	13,14,[14,16]	[15,18],19,21	[8],11,12,[12]	8,[10],13,[13]
	[14],17,18,[17]	12,[12],13,[14]	30,[30],31.2,[32.2]	15,15,[15,16]	X,[X,X],Y	10,11,[12,12]
	20,[23,23],23.2			15,[26.2,26.2],28.2	6,[6],9,[9]	8,[8,8],10
	16,[16],17,[18]	10		2		
G9NMJF	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	N/A
	4e 9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	N/A	N/A	15,26.2,28.2	6,9	8,10
	16,17,18	10	N/A	N/A	2	
GBTXEB	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
	4e 9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10		2		
H3GJ7M	GlobalFiler™					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
	4e 9,11,[13]	13,[14],15,[16]	13,14,[16]	[15],[18],19,21	[8],11,12	8,[10],13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15,[16]	X,[Y]	10,11,[12]
	20,[23],23.2			15,[26.2],28.2	6,9	8,[10]
	16,17,[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

H3XFYL	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
HUBUBWK	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
HJ4GBF	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
HWM4HR	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
J2WGZQ	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
J63MEK	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
J6EYVG	PowerPlex® Fusion 6C (STRmix 2.9)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20	15,26.2,28.2	6,9	8,10
	16,17,18	10	18	19		

TABLE 1

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

## Item 4e - STR Results

J84NEG	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
JABMDA	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
JTLEEQ	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
K2TEPC	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
K4JFTF	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
K8JNZB	PowerPlex® Fusion (True Allele)					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
4e	9,11,[13]	13,[14],15,[16]	13,14,[16]	[18],19,21	[8],11,12	8,[10],13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15,[16]	X,Y	10,11,[12]
	20,[23],23.2	10,[12],13	8,12,[13,20]		6,9	8,10
	16,17,[18]	10				
KJD6PC	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	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 4e - STR Results

KP2BJK	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
KZK6XF	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
L7MVFC	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
L8DWJE	PowerPlex® Fusion 6C (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20	15,26.2,28.2	6,9	8,10
	16,17,18	10	18	19		
L9L79Q	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
LLYRWD	GlobalFiler™ (STRMIX)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
LNMH7B	PowerPlex® Fusion (TrueAllele)					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
4e	9,11,[13]	13,[14],15,[16]	13,14,[16]	[15],[18],19,21	[8],11,12	8,[10],13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15,[16]	X,Y	10,11,[12]
	20,[23],23.2	10,[12],13	8,12,[13],[20]		6,9	8,10
	16,17,[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 4e - STR Results

LPFU4H	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
LRZKT7	GlobalFiler™					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
4e	9,11,[13]	13,[14],15,[16]	13,14,[16]	[15],[18],19,21	[8],11,12	8,[10],13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15,15,[16]	X,Y	10,11,[12]
	20,[23],23.2			15,[26.2],28.2	6,9	8,10
	16,17,[18]	10			2	
MQ7W9P	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
MVJZW7	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
N6N8C7	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
NDFM2B	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
NJL2JE	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	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 4e - STR Results

NM7979	PowerPlex® Fusion					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
4e	9,11,[13]	13,[14],15,[16]	13,14,[16]	[15],[18],19,21	[8],11,12	8,[10],13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15,[16]	X,Y	10,11,[12]
	20,[23],23.2	10,[12],13	8,12,[13],[20]		6,9	8,10
	16,17,[18]	10				
NNYYCM	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	--	--	15,26.2,28.2	6,9	8,10
	16,17,18	10	--	--	2	
NTRJHC	GlobalFiler™ (STRMix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
P2VUP7	PowerPlex® Fusion (TrueAllele)					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
4e	9,11,[13]	13,[14],15,[16]	13,14	[18],19,21	[8],11,12	8,13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15,[16]	X,Y	10,11,[12]
	20,[23],23.2	10,[12],13	8,12,[13],[20]		6,9	8,10
	16,17,[18]	10				
P6TDPJ	Investigator® 24plex QS					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10				
PHHBT3	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	-
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20	-	6,9	8,10
	16,17,18	10	-	-	-	
PN9MQK	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	14,15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	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

PYUAY9	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
PZKT2L	GlobalFiler™ (STRmix)					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
4e	9,11,[13]	13,[14],15,[16]	13,14,[16]	[15],[18],19,21	[8],11,12	8,[10],13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15,[16]	X,Y	10,11,[12]
	20,[23],23.2			15,[26.2],28.2	6,9	8,10
	16,17,[18]	10			2	
Q2CRTD	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
Q9DKP7	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
QPLZ89	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
RAYNW4	PowerPlex® Fusion (TrueAllele)					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
4e	9,11,[13]	13,[14],15,[16]	13,14,[16]	[15],[18],19,21	[8],11,12	8,[10],13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15,[16]	X,Y	10,11,[12]
	20,[23],23.2	10,[12],13	8,12,[13],[20]		6,9	8,10
	16,17,[18]	10				
RDL938	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	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

RFRCPB	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
RGHR67	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
RQB3E2	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
RRJFW3	PowerPlex® Fusion (TrueAllele)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
RXVNL8	PowerPlex® Fusion 6C					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
4e	9,11,[13]	13,[14],15,[16]	13,14,[16]	[15],[18],19,21	[8],11,12	8,[10],13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15,[16]	X,Y	10,11,[12]
	20,[23],23.2	10,[12],13	8,12,[13],[20]	15,26.2,28.2	6,9	8,10
	16,17,[18]	10	18	19		
RY4H2K	GlobalFiler™					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
4e	9,11,[13]	13,[14],15,[16]	13,14,[16]	[15],[18],19,21	[8],11,12	8,[10],13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15,15,[16]	X,Y	10,11,[12]
	20,[23],23.2			15,[26.2],28.2	6,9	8,10
	16,17,[18]	10			2	
RYZTY9	PowerPlex® Fusion 6C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20	15,26.2,28.2	6,9	8,10
	16,17,18	10	18	19		

TABLE 1

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

## Item 4e - STR Results

THDFX9	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
TVXC26	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
TW8LRG	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
TWTD3A	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
TXND68	PowerPlex® Fusion 6C (STRmix v. 2.9)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20	15,26.2,28.2	6,9	8,10
	16,17,18	10	18	19		
TYJW89	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
UET6KH	GlobalFiler™					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
4e	9,11,[13]	13,[14],15,[16]	13,14,[16]	[15,18],19,21	[8],11,12	8,[10],13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15,[16]	X,[Y]	10,11,[12]
	20,[23],23.2			15,[26.2],28.2	6,9	8,10
	16,17,[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

UHTFGH	GlobalFiler™					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
4e	9,11,[13]	13,[14],15,[16]	13,14,[16]	[15],[18],19,21	[8],11,12	8,[10],13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15,[16]	X,[Y]	10,11,12
	20,[23],23.2			15,[26.2],28.2	6,9	8,10
	16,17,[18]	10			2	
UJ29A4	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
UL6J6Y	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
UVDVL3	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15	13,14,16	18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
UVYY84	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,12,13,14	15,17,18	9,11	
4e	9,11,12,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
UWPBQA	GlobalFiler™					
	14,17.3,18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
4e	9,11,[13]	13,[14],15,[16]	13,14,[16]	[15],[18],19,21	[8],11,12	8,[10],13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15,[16]	X,[Y]	10,11,[12]
	20,[23],23.2			15,[26.2],28.2	6,9	8,10
	16,[17],[18]	10			2	
UZ9PGH	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	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

V8PBU2	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
VBQ8N3	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	NA
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	NA	NA	15,26.2,28.2	6,9	8,10
	16,17,18	10	NA	NA	2	
VDQYJD	Investigator® 24plex QS					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10				
VEMD77	PowerPlex® Fusion 6C (EuroForMix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20	15,26.2,28.2	6,9	8,10
	16,17,18	10	18	19		
VLLW7G	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
VMGXA7	PowerPlex® 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
W2WJ76	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	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 4e - STR Results

WAC3Q6	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,15,16	13,14	15,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
WCT7YE	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
WTXZL2	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
WUCYP4	PowerPlex®					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
4e	9,11,[13]	13,[14],15,[16]	13,14,[16]	[15],[18],19,21	[8],11,12	8,[10],13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15,[16]	X,Y	10,11,[12]
	20,[23],23.2	10,[12],13	8,12,[13],[20]	15,[26.2],28.2	6,9	8,10
	16,17,[18]	10	18	19		
XEV7YC	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,15	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
XU938Z	NGM SElect					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18		
4e		13,14,15,16	13,14,16	15,18,19,21		8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	
	20,23,23.2			15,26.2,28.2	6,9	
	16,17,18					
XWWU33	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	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 4e - STR Results

XYJFPY	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
	9,11,13	13,14,15,16	13,14,16	15,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10		2		
XZHE88	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
	9,11	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
XZUU3D	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10		2		
Y8ATBW	PowerPlex® Fusion 5C (TrueAllele)					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
	9,11,[13]	13,[14],15,[16]	13,14,[16]	[15],[18],19,21	[8],11,12	8,[10],13
	[14],17,18	12,13	30,31.2,[32.2]	15,[16]	X,Y	10,11,[12]
	20,[23],23.2	10,[12],13	8,12,[13],[20]		6,9	8,10
	16,17,[18]	10				
Y94JGB	PowerPlex® Fusion 5C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
YP9D4X	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10		2		
YPRRFU	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	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

YYFMGV	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
YYXC2B	PowerPlex® Fusion 6C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20	15,26.2,28.2	6,9	8,10
	16,17,18	10	18	19		
YZ9DMA	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
Z7VLMU	GlobalFiler™ (STRmix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10			2	
Z7XY64	GlobalFiler™					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
4e	9,11,[13]	13,[14],15,[16]	13,14,[16]	[15],[18],19,21	[8],11,12	8,[10],13
	[14],17,[18]	12,13,[14]	30,31.2,[32.2]	15,[16]	X,[Y]	10,11,[12]
	20,[23],23.2			15,[26.2],28.2	6,9	8,10
	16,17,[18]	10			2	
Z93799	Investigator® 24plex QS					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	10				
ZJ7Y4V	PowerPlex® Fusion 6C					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20	15,26.2,28.2	6,9	8,10
	16,17,18	10	18	19		



TABLE 1

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

Item 4e - STR Results

ZLND8V	PowerPlex® Fusion 5C					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
4e	9,11,[13]	13,[14],15,[16]	13,14,[16]	[15,18],19,21	[8],11,12	8,[10],13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15,[16]	X,Y	10,11,[12]
	20,[23],23.2	10,[12],13	8,12,[13,20]		6,9	8,10
	16,17,[18]	10				
ZMKE9Z	PowerPlex® Fusion					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2	10,12,13	8,12,13,20		6,9	8,10
	16,17,18	10				
ZNBXDY	Investigator® 24plex (STRMix)					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	
4e	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15,16	X,Y	10,11,12
	20,23,23.2			15,26.2,28.2	6,9	8,10
	16,17,18	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 4sp - STR Results

27DFZW	GlobalFiler™					
		14,18.3	20,25	11,14	15,18	9,11
4sp		9,11	13,15	13,14	19,21	11,12
		17,18	12,13	30,31.2	15,15	X,Y
		20,23.2	N/A	N/A	15,28.2	6,9
		16,17	10	N/A	N/A	2
2NUZKZ	PowerPlex® 5C					
		14,18.3	20,25	11,14	15,18	9,11
4sp		9,11	13,15	13,14	19,21	11,12
		17,18	12,13	30,31.2	15	X,Y
		20,23.2	10,13	8,12	--	6,9
		16,17	10	--	--	--
2NX7YW	GlobalFiler™					
		14,18.3	20,25	11,14	15,18	9,11
4sp		9,11	13,15	13,14	19,21	11,12
		17,18	12,13	30,31.2	15,15	X,Y
		20,23.2	na	na	15,28.2	6,9
		16,17	10	na	na	2
2QJP6Z	PowerPlex® Fusion 5C					
		14,18.3	20,25	11,14	15,18	9,11
4sp		9,11	13,15	13,14	19,21	11,12
		17,18	12,13	30,31.2	15	X,Y
		20,23.2	10,13	8,12		6,9
		16,17	10			
33MC9U	PowerPlex® Fusion					
		14,18.3	20,25	11,14	15,18	9,11
4sp		9,11	13,15	13,14	19,21	11,12
		17,18	12,13	30,31.2	15	X,Y
		20,23.2	10,13	8,12		6,9
		16,17	10			
3AMYEV	Identifiler® Plus					
			20,25		15,18	9,11
4sp		9,11	13,15			11,12
		17,18	12,13	30,31.2		X,Y
		20,23.2				6,9
		16,17				8,10
3BXERA	GlobalFiler™					
		14,18.3	20,25	11,14	15,18	9,11
4sp		9,11	13,15	13,14	19,21	11,12
		17,18	12,13	30,31.2	15,15	X,Y
		20,23.2			15,28.2	6,9
		16,17	10			2

TABLE 1

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

## Item 4sp - STR Results

3CB7KQ	GlobalFiler™ (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
3DQQQ3	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,[17],18	9,11	
4sp	9,11	13,[14],15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
3E4HGY	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
3VN9GX	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
42CXTV	Identifiler® Plus					
		20,25		15,18	9,11	
4sp	9,11	13,15			11,12	8,13
	17,18	12,13	30,31.2		X,Y	10,11
	20,23.2				6,9	8,10
	16,17					
66ATY2	GlobalFiler™ (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
6G2F6W	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				

TABLE 1

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

Item 4sp - STR Results

6RMJCV	GlobalFiler™ (STRmix™)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
6YH769	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
78BXRT	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
7HTVUX	GlobalFiler™					
	14,[17.3],18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,[14],15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
7MMV9U	GlobalFiler™ (STRMix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
7P6QDQ	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
7RWRGT	Investigator® 24plex (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10				

TABLE 1

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

Item 4sp - STR Results

7VURTQ	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
87T8GM	GlobalFiler™ (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
8ARHCM	GlobalFiler™ (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
8EKM47	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
8RVMTQ	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
8T8RDM	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	8,11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
8WLR9U	PowerPlex® Fusion 6C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12	15,28.2	6,9	8,10
	16,17	10	18	19		

TABLE 1

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

Item 4sp - STR Results

8XZW7R	GlobalFiler™					
		14,18.3	20,25	11,14	15,18	9,11
4sp		9,11	13,15	13,14	19,21	11,12
		17,18	12,13	30,31.2	15	X,Y
		20,23.2			15,28.2	6,9
		16,17	10			2
98HUA3	PowerPlex® Fusion 6C (STRmix)					
		14,18.3	20,25	11,14	15,18	9,11
4sp		9,11	13,15	13,14	19,21	11,12
		17,18	12,13	30,31.2	15	X,Y
		20,23.2	10,13	8,12	15,28.2	6,9
		16,17	10	18	19	
9DBWFM	PowerPlex® Fusion 5C (TrueAllele)					
		14,[17.3],18.3	20,25	11,[13],14	15,[17],18	9,11
4sp		9,11	13,[14],15	13,14	19,21	11,12
		[14],17,18	12,13	30,31.2	15	X,Y
		20,23.2	10,[12],13	8,12,[13]		6,9
		16,17	10			8,10
9JCBY4	GlobalFiler™					
		14,18.3	20,25	11,14	15,18	9,11
4sp		9,11	13,15	13,14	19,21	11,12
		17,18	12,13	30,31.2	15	X,Y
		20,23.2			15,28.2	6,9
		16,17	10			2
9MZ4BT	PowerPlex® Fusion 5c (True Allele)					
		14,18.3	20,25	11,14	15,18	9,11
4sp		9,11	13,15	13,14	19,21	11,12
		17,18	12,13	30,31.2	15	X,Y
		20,23.2	10,13	8,12		6,9
		16,17	10			8,10
9UA9M3	GlobalFiler™					
		14,18.3	20,25	11,14	15,18	9,11
4sp		9,11	13,15	13,14	19,21	11,12
		17,18	12,13	30,31.2	15,15	X,Y
		20,23.2			15,28.2	6,9
		16,17	10			2
9XY9N	GlobalFiler™					
		14,18.3	20,25	11,14	15,18	9,11
4sp		9,11	13,15	13,14	19,21	11,12
		17,18	12,13	30,31.2	15,15	X,Y
		20,23.2			15,28.2	6,9
		16,17	10			2

TABLE 1

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

## Item 4sp - STR Results

A3JXZ2	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
AD7ETV	GlobalFiler™ (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
AJ7E7J	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
AKNNGR	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
B24293	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
B4UHNP	GlobalFiler™ (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
B73C7M	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				

TABLE 1

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

Item 4sp - STR Results

B99FTQ	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
BBBXRY	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
BBVCKH	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
BHD7XM	GlobalFiler™					
	14,17.3,18.3	18,20,25	11,13,14	15,17,18	9,11	N/A
4sp	9,11,13	13,14,15,16	13,14,16	15,18,19,21	8,11,12	8,10,13
	14,17,18	12,13,14	30,31.2,32.2	15	X,Y	10,11,12
	20,23,23.2	N/A	N/A	15,26.2,28.2	6,9	8,10
	16,17,18	10	N/A	N/A	2	
BJMRAM	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
BLE9MN	GlobalFiler™ (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
CAUYCF	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	



TABLE 1

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

Item 4sp - STR Results

CDTEMP	PowerPlex® Fusion 6C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2	10,13	8,12	15,28.2	6,9	8,10
	16,17	10	18	19		
CJJPWM	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
CQ7XHL	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
CZR9LL	GlobalFiler™ PCR Amplification Kit					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
DW2YYJ	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
DXVP6X	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
DZMJ4M	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	

TABLE 1

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

## Item 4sp - STR Results

DZPTWR	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
E2D2KE	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	-
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2	10,13	8,12	-	6,9	8,10
	16,17	10	-	-	-	
EFWRJG	PowerPlex® Fusion (TrueAllele)					
	14,[17.3],18.3	[18],20,25	11,[13],14	15,[17],18	9,11	
4sp	9,11	13,[14],15	13,14,[16]	19,21	11,12	8,13
	[14],17,18	12,13,[14]	30,31.2,[32.2]	15	X,Y	10,11,[12]
	20,[23],23.2	10,[12],13	8,12,[13]		6,9	8,10
	16,17	10				
EGPHPV	GlobalFiler™ (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
EJUBLF	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
ENBWRN	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
ENQWDH	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				

TABLE 1

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

Item 4sp - STR Results

EPKMJW	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
F42HBL	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
F6N4XG	GlobalFiler™ (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
FCR4GJ	GlobalFiler™ (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
FDZXWW	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
FKLQBG	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
FM8BFL	PowerPlex® Fusion 6C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2	10,13	8,12	15,28.2	6,9	8,10
	16,17	10,10	18,18	19,19		

TABLE 1

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

Item 4sp - STR Results

FMAZHX	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
FNJABU	GlobalFiler™ (STRMix)					
	14,18.3	20,25	11,14	15,18	9,11	
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
FRHL7U	GlobalFiler™ (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
FUA3LG	GlobalFiler™ (STRmix v2.7)					
	14,18.3	20,25	11,14	15,18	9,11	
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
G9NMJF	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	N/A
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2	N/A	N/A	15,28.2	6,9	8,10
	16,17	10	N/A	N/A	2	
GBTXEB	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
H3GJ7M	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	

TABLE 1

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

Item 4sp - STR Results

H3XFYL	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
16,17	10					
HBUBWK	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
16,17	10					
HJ4GBF	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
16,17	10			2		
HWM4HR	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
16,17	10			2		
J2WGZQ	GlobalFiler™ (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
16,17	10			2		
J63MEK	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
16,17	10					
J6EYVG	PowerPlex® Fusion 6C (STRmix 2.9)					
	14,18.3	20,25	11,14	15,18	9,11	
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12	15,28.2	6,9	8,10
16,17	10	18	19			

TABLE 1

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

## Item 4sp - STR Results

J84NEG	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
JABMDA	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
JTLEEQ	GlobalFiler™ (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
K2TEPC	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
K4JFTF	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
K8JNZB	PowerPlex® Fusion (True Allele)					
	14,18.3	20,25	11,[13],14	15,[17],18	9,11	
4sp	9,11	13,[14],15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
KJD6PC	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				

TABLE 1

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

Item 4sp - STR Results

KP2BJK	GlobalFiler™ (STRmix)						
		14,18.3	20,25	11,14	15,18	9,11	
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
		17,18	12,13	30,31.2	15	X,Y	10,11
		20,23.2			15,28.2	6,9	8,10
		16,17	10			2	
KZK6XF	GlobalFiler™						
		14,18.3	20,25	11,14	15,18	9,11	
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
		17,18	12,13	30,31.2	15	X,Y	10,11
		20,23.2			15,28.2	6,9	8,10
		16,17	10			2	
L7MVFC	PowerPlex® Fusion						
		14,18.3	20,25	11,14	15,18	9,11	
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
		17,18	12,13	30,31.2	15	X,Y	10,11
		20,23.2	10,13	8,12		6,9	8,10
		16,17	10				
L8DWJE	PowerPlex® Fusion 6C (STRmix)						
		14,18.3	20,25	11,14	15,18	9,11	
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
		17,18	12,13	30,31.2	15	X,Y	10,11
		20,23.2	10,13	8,12	15,28.2	6,9	8,10
		16,17	10	18	19		
L9L79Q	GlobalFiler™						
		14,18.3	20,25	11,14	15,18	9,11	
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
		17,18	12,13	30,31.2	15,15	X,Y	10,11
		20,23.2			15,28.2	6,9	8,10
		16,17	10			2	
LLYRWD	GlobalFiler™ (STRMIX)						
		14,18.3	20,25	11,14	15,18	9,11	
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
		17,18	12,13	30,31.2	15	X,Y	10,11
		20,23.2			15,28.2	6,9	8,10
		16,17	10			2	
LNMH7B	PowerPlex® Fusion (TrueAllele)						
		14,18.3	[18],20,25	11,14	15,18	9,11	
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
		17,18	12,13	30,31.2	15	X,Y	10,11
		20,23.2	10,13	8,12		6,9	8,10
		16,17	10				

TABLE 1

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

Item 4sp - STR Results

LPFU4H	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
LRZKT7	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
MQ7W9P	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
MVJZW7	GlobalFiler™ (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
N6N8C7	GlobalFiler™ (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
NDFM2B	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
NJL2JE	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				



TABLE 1

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

Item 4sp - STR Results

NM7979	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
NNYYCM	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2	..	..	15,28.2	6,9	8,10
	16,17	10	..	..	2	
NTRJHC	GlobalFiler™ (STRMix)					
	14,18.3	20,25	11,14	15,18	9,11	
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
P2VUP7	PowerPlex® Fusion (TrueAllele)					
	14,18.3	20,25	11,14	15,18	9,11	
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
P6TDPJ	Investigator® 24plex QS					
	14,18.3	20,25	11,14	15,18	9,11	
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10				
PHHBT3	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	-
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2	10,13	8,12	-	6,9	8,10
	16,17	10	-	-	-	
PN9MQK	GlobalFiler™ (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
	4sp 9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	

TABLE 1

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

## Item 4sp - STR Results

PYUAY9	GlobalFiler™						
	14,18.3	20,25	11,14	15,18	9,11		
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11	
	20,23.2			15,28.2	6,9	8,10	
	16,17	10			2		
PZKT2L	GlobalFiler™ (STRmix)						
	14,18.3	20,25	11,14	15,18	9,11		
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11	
	20,23.2			15,28.2	6,9	8,10	
	16,17	10			2		
Q2CRTD	PowerPlex® Fusion						
	14,18.3	20,25	11,14	15,18	9,11		
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11	
	20,23.2	10,13	8,12		6,9	8,10	
	16,17	10					
Q9DKP7	PowerPlex® Fusion						
	14,18.3	20,25	11,14	15,18	9,11		
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11	
	20,23.2	10,13	8,12		6,9	8,10	
	16,17	10					
QPLZ89	GlobalFiler™ (STRmix)						
	14,18.3	20,25	11,14	15,18	9,11		
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11	
	20,23.2			15,28.2	6,9	8,10	
	16,17	10			2		
RAYNW4	PowerPlex® Fusion (TrueAllele)						
	14,18.3	20,25	11,14	15,18	9,11		
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11	
	20,23.2	10,13	8,12		6,9	8,10	
	16,17	10					
RDL938	GlobalFiler™						
	14,18.3	20,25	11,14	15,18	9,11		
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11	
	20,23.2			15,28.2	6,9	8,10	
	16,17	10			2		

TABLE 1

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

Item 4sp - STR Results

RFRCPB	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
RGHR67	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
RQB3E2	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
RRJFW3	PowerPlex® Fusion (TrueAllele)					
	14,18.3	20,[24],25	11,14	15,[17],18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11,[12]
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
RXVNL8	PowerPlex® Fusion 6C					
	14,18.3	[18],20,25	11,14	15,18	9,11	
4sp	9,11	13,[14],15	13,14	19,21	[8],11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12	15,[26.2],28.2	6,9	8,10
	16,17	10	18	19		
RY4H2K	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
RYZTY9	PowerPlex® Fusion 6C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12	15,28.2	6,9	8,10
	16,17	10	18	19		

TABLE 1

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

Item 4sp - STR Results

THDFX9	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
TVXC26	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
TW8LRG	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
TWTD3A	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
TXND68	PowerPlex® Fusion 6C (STRmix v. 2.9)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12	15,28.2	6,9	8,10
	16,17	10	18	19		
TYJW89	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
UET6KH	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	

TABLE 1

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

Item 4sp - STR Results

UHTFGH	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
UJ29A4	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
UL6J6Y	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
UVDVL3	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
UVYY84	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
UWPBQA	GlobalFiler™					
	14,18.3	[18],20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
UZ9PGH	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	

TABLE 1

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

Item 4sp - STR Results

V8PBU2	GlobalFiler™ (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
VBQ8N3	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	NA
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2	NA	NA	15,28.2	6,9	8,10
	16,17	10	NA	NA	2	
VDQYJD	Investigator® 24plex QS					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10				
VEMD77	PowerPlex® Fusion 6C (EuroForMix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2	10,13	8,12	15,28.2	6,9	8,10
	16,17	10	18	19		
VLLW7G	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
VMGXA7	PowerPlex® 5C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
W2WJ76	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				

TABLE 1

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

Item 4sp - STR Results

WAC3Q6	PowerPlex® Fusion						
		14,18.3	20,25	11,14	15,18	9,11	
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
		17,18	12,13	30,31.2	15	X,Y	10,11
		20,23.2	10,13	8,12		6,9	8,10
	16,17	10					
WCT7YE	PowerPlex® Fusion						
		14,18.3	20,25	11,14	15,18	9,11	
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
		17,18	12,13	30,31.2	15	X,Y	10,11
		20,23.2			15,28.2	6,9	8,10
	16,17	10			2		
WTXZL2	GlobalFiler™						
		14,18.3	20,25	11,14	15,18	9,11	
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
		17,18	12,13	30,31.2	15,15	X,Y	10,11
		20,23.2			15,28.2	6,9	8,10
	16,17	10			2		
WUCYP4	PowerPlex®						
		14,18.3	20,25	11,14	15,18	9,11	
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
		17,18	12,13	30,31.2	15,15	X,Y	10,11
		20,23.2	10,13	8,12	15,28.2	6,9	8,10
	16,17	10	18	19			
XEV7YC	GlobalFiler™						
		14,18.3	20,25	11,14	15,18	9,11	
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
		17,18	12,13	30,31.2	15,15	X,Y	10,11
		20,23.2			15,28.2	6,9	8,10
	16,17	10			2		
XU938Z	NGM SElect						
		14,18.3	20,25	11,14	15,18		
	4sp		13,15	13,14	19,21		8,13
		17,18	12,13	30,31.2	15,15	X,Y	
		20,23.2			15,28.2	6,9	
	16,17						
XWWU33	PowerPlex® Fusion 5C						
		14,18.3	20,25	11,14	15,18	9,11	
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
		17,18	12,13	30,31.2	15	X,Y	10,11
		20,23.2	10,13	8,12		6,9	8,10
	16,17	10					

TABLE 1

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

Item 4sp - STR Results

XYJFPY	GlobalFiler™ (STRmix)						
		14,18.3	20,25	11,14	15,18	9,11	
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
		17,18	12,13	30,31.2	15	X,Y	10,11
		20,23.2			15,28.2	6,9	8,10
		16,17	10			2	
XZHE88	PowerPlex® Fusion						
		14,18.3	20,25	11,14	15,18	9,11	
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
		17,18	12,13	30,31.2	15	X,Y	10,11
		20,23.2	10,13	8,12		6,9	8,10
		16,17	10				
XZUU3D	GlobalFiler™						
		14,18.3	20,25	11,14	15,17,18	9,11	
	4sp	9,11	13,14,15	13,14	19,21	11,12	8,13
		17,18	12,13,14	30,31.2	15	X,Y	10,11
		20,23.2			15,28.2	6,9	8,10
		16,17	10			2	
Y8ATBW	PowerPlex® Fusion 5C (TrueAllele)						
		14,18.3	20,25	11,14	15,[17],18	9,11	
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
		17,18	12,13	30,31.2	15	X,Y	10,11,[12]
		20,23.2	10,13	8,12		6,9	8,10
		16,17	10				
Y94JGB	PowerPlex® Fusion 5C						
		14,18.3	20,25	11,14	15,18	9,11	
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
		17,18	12,13	30,31.2	15	X,Y	10,11
		20,23.2	10,13	8,12		6,9	8,10
		16,17	10				
YP9D4X	GlobalFiler™ (STRmix)						
		14,18.3	20,25	11,14	15,18	9,11	
	4sp	9,11	13,15	13,14	19,21	11,12	8,13
		17,18	12,13	30,31.2	15	X,Y	10,11
		20,23.2			15,28.2	6,9	8,10
		16,17	10			2	
YPRRFU	GlobalFiler™ (STRmix)						
		14,18.3	18,20,25	11,14	15,17,18	9,11	
	4sp	9,11	13,14,15	13,14	19,21	11,12	8,13
		17,18	12,13	30,31.2	15	X,Y	10,11,12
		20,23.2			15,28.2	6,9	8,10
		16,17	10			2	



TABLE 1

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

## Item 4sp - STR Results

YYFMGV	GlobalFiler™ (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
YYXC2B	PowerPlex® Fusion 6C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12	15,28.2	6,9	8,10
	16,17	10	18	19		
YZ9DMA	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
Z7VLMU	GlobalFiler™ (STRmix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
Z7XY64	GlobalFiler™					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10			2	
Z93799	Investigator® 24plex QS					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10				
ZJ7Y4V	PowerPlex® Fusion 6C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2	10,13	8,12	15,28.2	6,9	8,10
	16,17	10	18	19		

TABLE 1

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

Item 4sp - STR Results

ZLND8V	PowerPlex® Fusion 5C					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
ZMKE9Z	PowerPlex® Fusion					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15	X,Y	10,11
	20,23.2	10,13	8,12		6,9	8,10
	16,17	10				
ZNBXDY	Investigator® 24plex (STRMix)					
	14,18.3	20,25	11,14	15,18	9,11	
4sp	9,11	13,15	13,14	19,21	11,12	8,13
	17,18	12,13	30,31.2	15,15	X,Y	10,11
	20,23.2			15,28.2	6,9	8,10
	16,17	10				

# YSTR Amplification Kit(s) & Results

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	YGATAH4
<b>Item 2 - YSTR Results</b>									
27DFZW	Yfiler™								
	N/A	14	11,15	12	28	24	11	14	13
2	15	12	12	19	N/A	16	19	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	13
2NUZKZ	PowerPlex® Y 23								
	-	14	11,15	12	28	24	11	14	13
2	15	12	12	19	-	16	19	-	20
	-	12	12	17	21	-	23	10	13
2NX7YW	Yfiler™								
	na	14	11,15	12	28	24	11	14	13
2	15	12	12	19	na	16	19	na	na
	na	na	na	na	na	na	23	na	13
2QJP6Z	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		
							23		13
33MC9U	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
3BXERA	Yfiler™ Plus Direct Mode								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
3CB7KQ	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
3DQQQ3	PowerPlex® Y 23								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		20
		12	12	17	21		23	10	13
4JAH8U	PowerPlex® Y 23								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		20
		12	12	17	21		23	10	13
66ATY2	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
6G2F6W	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		
							23		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 2 - YSTR Results</b>									
6RMJCV	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
6YH769	Yfiler™ Plus Direct Mode								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
78BXRT	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		
							23		13
7MMV9U	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
7P6QDQ	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
7QKVA4	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
7RWRGT	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		
							23		13
7VURTQ	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		
							23		13
87T8GM	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
8EKM47	Yfiler™ Plus Direct Mode								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
8T8RDM	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
8XZW7R	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		
							23		13

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 2 - YSTR Results</b>									
9JCBY4	PowerPlex® Y 23								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		20
		12	12	17	21		23	10	13
9UA9M3	Yfiler™ Plus Direct Mode								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
9XY9N	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		
							23		13
AD7ETV	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
AJ7E7J	PowerPlex® Y 23								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		20
		12	12	17	21		23	10	13
AKNNGR	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		
							23		13
B24293	Yfiler™ Plus Direct Mode								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
B4UHNP	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
B73C7M	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
BHD7XM	Yfiler™								
	N/A	14	11,15	12	28	24	11	14	13
2	15	12	12	19	N/A	16	19	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	13
BJMRAM	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
BLE9MN	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 2 - YSTR Results</b>									
CAT4RP	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
CAUYCF	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
CJJPWM	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		
							23		13
CQ7XHL	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		
							23		13
CVD7LN	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
CZR9LL	Yfiler™ Plus Amplification Kit								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
DW2YYJ	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
DZMJ4M	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		
							23		13
ENQWDH	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
EPKMJW	PowerPlex® Y 23								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		20
		12	12	17	21		23	10	13
F6N4XG	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
FCR4GJ	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13

TABLE 2

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

Item 2 - YSTR Results

FDZXWW	Yfiler™ Plus Direct Mode									
		35,36	14	11,15	12	28	24	11	14	13
	2	15	12	12	19	30	16	19	11	20
		37	12		17	21	22	23		13
FKLQBG	Yfiler™ Plus									
		35,36	14	11,15	12	28	24	11	14	13
	2	15	12	12	19	30	16	19	11	20
		37	12		17	21	22	23		13
FMAZHX	Yfiler™ Plus Direct Mode									
		35,36	14	11,15	12	28	24	11	14	13
	2	15	12	12	19	30	16	19	11	20
		37	12		17	21	22	23		13
FUA3LG	Yfiler™									
		35,36	14	11,15	12	28	24	11	14	13
	2	15	12	12	19	30	16	19	11	20
		37	12		17	21	22	23		13
G9NMJF	Yfiler™									
		N/A	14	11,15	12	28	24	11	14	13
	2	15	12	12	19	N/A	16	19	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	13
GBTXEB	Yfiler™ Plus									
		35,36	14	11,15	12	28	24	11	14	13
	2	15	12	12	19	30	16	19	11	20
		37	12		17	21	22	23		13
HF3DJT	PowerPlex® Y 23									
			14	11,15	12	28	24	11	14	13
	2	15	12	12	19		16	19		20
			12	12	17	21		23	10	13
HWM4HR	PowerPlex® Y 23									
			14	11,15	12	28	24	11	14	13
	2	15	12	12	19		16	19		20
			12	12	17	21		23	10	13
J63MEK	Yfiler™									
			14	11,15	12	28	24	11	14	13
	2	15	12	12	19		16	19		
								23		13
JABMDA	PowerPlex® Y 23									
			14	11,15	12	28	24	11	14	13
	2	15	12	12	19		16	19		20
			12	12	17	21		23	10	13
K2TEPC	Yfiler™ Plus									
		35,36	14	11,15	12	28	24	11	14	13
	2	15	12	12	19	30	16	19	11	20
		37	12		17	21	22	23		13
K4JFTF	Yfiler™									
			14	11,15	12	28	24	11	14	13
	2	15	12	12	19		16	19		
								23		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 2 - YSTR Results</b>									
KJD6PC	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
KLYPUF	PowerPlex® Y 23								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		20
		12	12	17	21		23	10	13
KP2BJK	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
KZK6XF	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		
							23		13
L7MVFC	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
L9L79Q	Yfiler™ Plus Direct Mode								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
LLYRWD	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
LRZKT7	Yfiler™ Plus Direct Mode								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
LXBZWJ	PowerPlex® Y 23								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		20
		12	12	17	21		23	10	13
MQ7W9P	Yfiler™ Plus (Direct)								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
MVJZW7	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
N6N8C7	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13



TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 2 - YSTR Results</b>									
NDFM2B	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		
							23		13
NTRJHC	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
PYUAY9	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		
							23		13
PZKT2L	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
Q9DKP7	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
QPLZ89	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
RDL938	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		
							23		13
RFRCPB	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		
							23		13
RGHR67	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
RQB3E2	PowerPlex® Y 23								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		20
		12	12	17	21		23	10	13
RY4H2K	Yfiler™ Plus (Direct mode)								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
T7YZT2	PowerPlex® Y 23								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		20
		12	12	17	21		23	10	13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 2 - YSTR Results</b>									
THDFX9	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		13
							23		
TWTD3A	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		13
							23		
TYJW89	Yfiler™								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
UET6KH	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
UHTFGH	Yfiler™								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
UJ29A4	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		13
							23		
UZ9PGH	Yfiler™ Plus: Direct Mode								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
V6ZEDF	PowerPlex® Y 23								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		20
		12	12	17	21		23	10	13
V8PBU2	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
VBQ8N3	Yfiler™								
	NA	14	11,15	12	28	24	11	14	13
2	15	12	12	19	NA	16	19	NA	NA
	NA	NA	NA	NA	NA	NA	23	NA	13
VEMD77	Yfiler™ Plus								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13
VLLW7G	Yfiler™ Plus Direct mode								
	35,36	14	11,15	12	28	24	11	14	13
2	15	12	12	19	30	16	19	11	20
	37	12		17	21	22	23		13

TABLE 2

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

## Item 2 - YSTR Results

WCT7YE	PowerPlex® Y 23									
		14	11,15	12	28	24	11	14	13	
	2	15	12	12	19	16	19	20		
		12	12	17	21		23	10	13	
XE77YC	Yfiler™									
		35,36	14	11,15	12	28	24	11	14	13
	2	15	12	12	19	30	16	19	11	20
		37	12	17	21	22	23		13	
XU938Z	PowerPlex® Y									
		14	11,15	12	28	24	11	14	13	
	2	15	12	12	19	16	19	20		
		12	12	17	21		23	10	13	
XYJFPY	Yfiler™ Plus									
		35,36	14	11,15	12	28	24	11	14	13
	2	15	12	12	19	30	16	19	11	20
		37	12	17	21	22	23		13	
XZHE88	PowerPlex® Y 23									
		14	11,15	12	28	24	11	14	13	
	2	15	12	12	19	16	19	20		
		12	12	17	21		23	10	13	
YP9D4X	Yfiler™ Plus									
		35,36	14	11,15	12	28	24	11	14	13
	2	15	12	12	19	30	16	19	11	20
		37	12	17	21	22	23		13	
YPRRFU	Yfiler™ Plus									
		35,36	14	11,15	12	28	24	11	14	13
	2	15	12	12	19	30	16	19	11	20
		37	12	17	21	22	23		13	
YYFMGV	Yfiler™ Plus									
		35,36	14	11,15	12	28	24	11	14	13
	2	15	12	12	19	30	16	19	11	20
		37	12	17	21	22	23		13	
YYXC2B	Yfiler™ Plus									
		35,36	14	11,15	12	28	24	11	14	13
	2	15	12	12	19	30	16	19	11	20
		37	12	17	21	22	23		13	
YZ9DMA	Yfiler™									
		35,36	14	11,15	12	28	24	11	14	13
	2	15	12	12	19	30	16	19	11	20
		37	12	17	21	22	23		13	
Z7VLMU	Yfiler™ Plus									
		35,36	14	11,15	12	28	24	11	14	13
	2	15	12	12	19	30	16	19	11	20
		37	12	17	21	22	23		13	
Z7XY64	Yfiler™ Plus									
		35,36	14	11,15	12	28	24	11	14	13
	2	15	12	12	19	30	16	19	11	20
		37	12	17	21	22	23		13	

TABLE 2

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

Item 2 - YSTR Results

ZMKE9Z	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		
							23		13
ZNBXDY	Yfiler™								
		14	11,15	12	28	24	11	14	13
2	15	12	12	19		16	19		
							23		13

TABLE 2

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

Item 3 - YSTR Results

2NUZKZ	PowerPlex® Y 23								
3	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
2NX7YW	Yfiler™								
3	na	na	na	na	na	na	na	na	na
	na	na	na	na	na	na	na	na	na
	na	na	na	na	na	na	na	na	na
33MC9U	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
7P6QDQ	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
8EKM47	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
9UA9M3	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
B73C7M	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
BJM RAM	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
DW2YYJ	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
ENQWDH	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
FDZXWW	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
FKLQBG	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

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	YGATAH4

Item 3 - YSTR Results

K2TEPC	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
KJD6PC	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
L7MVFC	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
Q9DKP7	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
RGHR67	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
RY4H2K	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
VLLW7G	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
XU938Z	PowerPlex® Y								
		F	F,F	F	F	F	F	F	F
	F	F	F	F	F	F	F	F	F
3		F	F	F	F	F	F	F	F
		F	F	F	F	F	F	F	F
		F	F	F	F	F	F	F	F

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	YGATAH4

Item 4 - YSTR Results

4JAH8U	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
4	15	12	12	19		14	17		22
		12	13	18	19		24	10	12
7QKVA4	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
CAT4RP	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
CVD7LN	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
KLYPUF	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
4	15	12	12	19		14	17		22
		12	13	18	19		24	10	12
LXBZWJ	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
4	15	12	12	19		14	17		22
		12	13	18	19		24	10	12
T7YZT2	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
4	15	12	12	19		14	17		22
		12	13	18	19		24	10	12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 4e - YSTR Results</b>									
27DFZW	Yfiler™								
	N/A	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	N/A	14	17	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	24	N/A	12
2NUZKZ	PowerPlex® Y 23								
	--	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	--	14	17	--	22
	--	12	13	18	19	--	24	10	12
2NX7YW	Yfiler™								
	na	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	na	14	17	na	na
	na	na	na	na	na	na	24	na	12
2QJP6Z	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12
33MC9U	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
3BXERA	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
3CB7KQ	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
3DQQQ3	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		22
		12	13	18	19		24	10	12
66ATY2	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
6G2F6W	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12
6RMJCV	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
6YH769	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12



TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 4e - YSTR Results</b>									
78BXRT	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12
7MMV9U	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
7P6QDQ	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
7RWRGT	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12
7VURTQ	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12
87T8GM	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
8EKM47	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
8T8RDM	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
8XZW7R	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12
9JCBY4	PowerPlex® Y 23								
4e									
9UA9M3	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
9XY9N	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12

TABLE 2

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

Item 4e - YSTR Results

AD7ETV	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
AJ7E7J	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		22
		12	13	18	19		24	10	12
AKNNGR	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12
B24293	Yfiler™ Plus								
4e									
B4UHNP	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
B73C7M	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
BHD7XM	Yfiler™								
	N/A	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	N/A	14	17	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	24	N/A	12
BJMRAM	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
BLE9MN	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
CAUYCF	Yfiler™ Plus								
4e									
CJJPWM	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12
CQ7XHL	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12

TABLE 2

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

Item 4e - YSTR Results

CZR9LL	Yfiler™ Plus Amplification Kit								
	35,36	14	11,13	14	30	24	10	13	13
	4e	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
DW2YYJ	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4e	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
DZMJ4M	Yfiler™								
		14	11,13	14	30	24	10	13	13
	4e	15	12	12	19		14	17	
							24		12
ENQWDH	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4e	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
EPKMJW	PowerPlex® Y 23								
	4e								
F6N4XG	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4e	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
FCR4GJ	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4e	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
FDZXWW	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4e	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
FKLQBG	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4e	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
FMAZHX	Yfiler™ Plus								
	4e								
FUA3LG	Yfiler™								
	35,36	14	11,13	14	30	24	10	13	13
	4e	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
G9NMJF	Yfiler™								
	N/A	14	11,13	14	30	24	10	13	13
	4e	15	12	12	19	N/A	14	17	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	24	N/A	12

TABLE 2

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

Item 4e - YSTR Results

HF3DJT	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		22
		12	13	18	19		24	10	12
HWM4HR	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		22
		12	13	18	19		24	10	12
J63MEK	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12
JABMDA	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		22
		12	13	18	19		24	10	12
K2TEPC	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
K4JTF	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12
KJD6PC	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
KP2BJK	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
KZK6XF	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12
L7MVFC	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
L9L79Q	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
LLYRWD	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 4e - YSTR Results</b>									
LRZKT7	Yfiler™								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
MQ7W9P	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
MVJZW7	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
N6N8C7	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
NDFM2B	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12
NTRJHC	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
PYUAY9	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12
PZKT2L	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
Q9DKP7	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
QPLZ89	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
RDL938	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12
RFRCPB	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 4e - YSTR Results</b>									
RGHR67	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
RQB3E2	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		22
		12	13	18	19		24	10	12
RY4H2K	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
THDFX9	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12
TWTD3A	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12
TYJW89	Yfiler™								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
UET6KH	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
UHTFGH	Yfiler™								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
UJ29A4	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12
UZ9PGH	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
V6ZEDF	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		22
		12	13	18	19		24	10	12
V8PBU2	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 4e - YSTR Results</b>									
VBQ8N3	Yfiler™								
	NA	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	NA	14	17	NA	NA
	NA	NA	NA	NA	NA	NA	24	NA	12
VEMD77	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
VLLW7G	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
XEV7YC	Yfiler™								
4e									
XU938Z	PowerPlex® Y								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		22
		12	13	18	19		24	10	12
XYJFPY	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
XZHE88	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		22
		12	13	18	19		24	10	12
YP9D4X	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
YPRRFU	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
YYFMGV	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
YYXC2B	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
YZ9DMA	Yfiler™								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12

TABLE 2

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

Item 4e - YSTR Results

Z7VLMU	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
Z7XY64	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4e	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
ZMKE9Z	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12
ZNBXDY	Yfiler™								
		14	11,13	14	30	24	10	13	13
4e	15	12	12	19		14	17		
							24		12



TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 4sp - YSTR Results</b>									
27DFZW	Yfiler™								
	N/A	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	N/A	14	17	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	24	N/A	12
2NUZKZ	PowerPlex® Y 23								
	--	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	--	14	17	--	22
	--	12	13	18	19	--	24	10	12
2NX7YW	Yfiler™								
	na	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	na	14	17	na	na
	na	na	na	na	na	na	24	na	12
2QJP6Z	Yfiler™								
		14	11,13	14	30	24	10	13	13
4sp	15	12	12	19		14	17		
							24		12
33MC9U	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
3BXERA	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
3CB7KQ	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
3DQQQ3	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
4sp	15	12	12	19		14	17		22
		12	13	18	19		24	10	12
66ATY2	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
6G2F6W	Yfiler™								
		14	11,13	14	30	24	10	13	13
4sp	15	12	12	19		14	17		
							24		12
6RMJCV	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
6YH769	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 4sp - YSTR Results</b>									
78BXRT	Yfiler™								
		14	11,13	14	30	24	10	13	13
4sp	15	12	12	19		14	17		12
							24		
7MMV9U	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
7P6QDQ	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
7RWRGT	Yfiler™								
		14	11,13	14	30	24	10	13	13
4sp	15	12	12	19		14	17		12
							24		
7VURTQ	Yfiler™								
		14	11,13	14	30	24	10	13	13
4sp	15	12	12	19		14	17		12
							24		
87T8GM	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
8EKM47	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
8T8RDM	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
8XZW7R	Yfiler™								
		14	11,13	14	30	24	10	13	13
4sp	15	12	12	19		14	17		12
							24		
9JCBY4	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
4sp	15	12	12	19		14	17		22
		12	13	18	19		24	10	12
9UA9M3	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
9XY9N	Yfiler™								
		14	11,13	14	30	24	10	13	13
4sp	15	12	12	19		14	17		12
							24		

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	YGATAH4
<b>Item 4sp - YSTR Results</b>									
AD7ETV	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
AJ7E7J	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
4sp	15	12	12	19		14	17		22
		12	13	18	19		24	10	12
AKNNGR	Yfiler™								
		14	11,13	14	30	24	10	13	13
4sp	15	12	12	19		14	17		
							24		12
B24293	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
B4UHNP	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
B73C7M	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
BHD7XM	Yfiler™								
	N/A	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	N/A	14	17	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	24	N/A	12
BJMRAM	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
BLE9MN	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
CAUYCF	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
CJJPWM	Yfiler™								
		14	11,13	14	30	24	10	13	13
4sp	15	12	12	19		14	17		
							24		12
CQ7XHL	Yfiler™								
		14	11,13	14	30	24	10	13	13
4sp	15	12	12	19		14	17		
							24		12

TABLE 2

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

Item 4sp - YSTR Results

CZR9LL	Yfiler™ Plus Amplification Kit								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
DW2YYJ	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
DZMJ4M	Yfiler™								
		14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19		14	17	
							24		12
ENQWDH	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
EPKMJW	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19		14	17	
		12	13	18	19		24	10	12
F6N4XG	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
FCR4GJ	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
FDZXWW	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
FKLQBG	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
FMAZHX	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
FUA3LG	Yfiler™								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
G9NMJF	Yfiler™								
	N/A	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	N/A	14	17	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	24	N/A	12

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 4sp - YSTR Results</b>									
HF3DJT	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
4sp	15	12	12	19		14	17		22
		12	13	18	19		24	10	12
HWM4HR	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
4sp	15	12	12	19		14	17		22
		12	13	18	19		24	10	12
J63MEK	Yfiler™								
		14	11,13	14	30	24	10	13	13
4sp	15	12	12	19		14	17		
							24		12
JABMDA	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
4sp	15	12	12	19		14	17		22
		12	13	18	19		24	10	12
K2TEPC	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
K4JFTF	Yfiler™								
		14	11,13	14	30	24	10	13	13
4sp	15	12	12	19		14	17		
							24		12
KJD6PC	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
KP2BJK	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
KZK6XF	Yfiler™								
		14	11,13	14	30	24	10	13	13
4sp	15	12	12	19		14	17		
							24		12
L7MVFC	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
L9L79Q	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
LLYRWD	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
4sp	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12

TABLE 2

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

Item 4sp - YSTR Results

LRZKT7	Yfiler™								
4sp	[REDACTED]								
MQ7W9P	Yfiler™ Plus								
4sp	35,36	14	11,13	14	30	24	10	13	13
	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
MVJZW7	Yfiler™ Plus								
4sp	35,36	14	11,13	14	30	24	10	13	13
	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
N6N8C7	Yfiler™ Plus								
4sp	35,36	14	11,13	14	30	24	10	13	13
	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
NDFM2B	Yfiler™								
4sp		14	11,13	14	30	24	10	13	13
	15	12	12	19		14	17		
							24		12
NTRJHC	Yfiler™ Plus								
4sp	35,36	14	11,13	14	30	24	10	13	13
	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
PYUAY9	Yfiler™								
4sp		14	11,13	14	30	24	10	13	13
	15	12	12	19		14	17		
							24		12
PZKT2L	Yfiler™ Plus								
4sp	35,36	14	11,13	14	30	24	10	13	13
	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
Q9DKP7	Yfiler™ Plus								
4sp	35,36	14	11,13	14	30	24	10	13	13
	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
QPLZ89	Yfiler™ Plus								
4sp	35,36	14	11,13	14	30	24	10	13	13
	15	12	12	19	29	14	17	11	22
	38	12		18	19	20	24		12
RDL938	Yfiler™								
4sp		14	11,13	14	30	24	10	13	13
	15	12	12	19		14	17		
							24		12
RFRCPB	Yfiler™								
4sp		14	11,13	14	30	24	10	13	13
	15	12	12	19		14	17		
							24		12

TABLE 2

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

Item 4sp - YSTR Results

RGHR67	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
RQB3E2	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19		14	17	22
		12	13	18	19		24	10	12
RY4H2K	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
THDFX9	Yfiler™								
		14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19		14	17	
							24		12
TWTD3A	Yfiler™								
		14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19		14	17	
							24		12
TYJW89	Yfiler™								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
UET6KH	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
UHTFGH	Yfiler™								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
UJ29A4	Yfiler™								
		14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19		14	17	
							24		12
UZ9PGH	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
V6ZEDF	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19		14	17	22
		12	13	18	19		24	10	12
V8PBU2	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12

TABLE 2

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

Item 4sp - YSTR Results

VBQ8N3	Yfiler™								
	NA	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	NA	14	17	NA
	NA	NA	NA	NA	NA	NA	24	NA	12
VEMD77	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
VLLW7G	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
WCT7YE		14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19		14	17	22
		12	13	18	19		24	10	12
XEV7YC	Yfiler™								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
XU938Z	PowerPlex® Y								
		14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19		14	17	22
		12	13	18	19		24	10	12
XYJFPY	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
XZHE88	PowerPlex® Y 23								
		14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19		14	17	22
		12	13	18	19		24	10	12
YP9D4X	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
YPRRFU	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
YYFMGV	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12
YYXC2B	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	4sp	15	12	12	19	29	14	17	11
	38	12		18	19	20	24		12



TABLE 2

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

Item 4sp - YSTR Results

YZ9DMA	Yfiler™								
	35,36	14	11,13	14	30	24	10	13	13
	15	12	12	19	29	14	17	11	22
4sp	38	12		18	19	20	24		12
Z7VLMU	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	15	12	12	19	29	14	17	11	22
4sp	38	12		18	19	20	24		12
Z7XY64	Yfiler™ Plus								
	35,36	14	11,13	14	30	24	10	13	13
	15	12	12	19	29	14	17	11	22
4sp	38	12		18	19	20	24		12
ZMKE9Z	Yfiler™								
		14	11,13	14	30	24	10	13	13
	15	12	12	19		14	17		
4sp						24			12
ZNBXDY	Yfiler™								
		14	11,13	14	30	24	10	13	13
	15	12	12	19		14	17		
4sp						24			12

# Additional DNA Results

## TABLE 3

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

<b>Locus</b>	<b>WebCode</b>	<b>Item 1</b>	<b>Item 2</b>	<b>Item 3</b>	<b>Item 3e</b>	<b>Item 3sp</b>	<b>Item 4</b>	<b>Item 4e</b>	<b>Item 4sp</b>
D10S2325	4JAH8U	11,12	6,12	11,12			9,11,12		
D21S2055	4JAH8U	25,30	16.1,25	25,30			18.1,25,30		
D2S1360	4JAH8U	26,28	23,23	26,28			22,23,26,28		
D3S1744	4JAH8U	15,16	16,17	15,16			14,15,16,18		
D4S2366	4JAH8U	12,12	10,11	12,12			9,12,14		
D5S2500	4JAH8U	15,16	11,13	15,16			15,16		
D6S474	4JAH8U	13,17	15,16	13,17			13,15,16,17		
D7S1517	4JAH8U	22,24	21,25	22,24			19,22,24,25		
D8S1132	4JAH8U	18,21	18,18	18,21			15,18,21,22		

# DNA Interpretations

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

TABLE 4

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
27DFZW	Yes	Yes	No	No	7MMV9U	Yes	Yes	No	No
2NUZKZ	Yes	Yes	No	No	7P6QDQ	Yes	Yes	No	No
2NX7YW	Yes	Yes	No	No	7QKVA4	Yes	Yes	No	No
2QJP6Z	Yes	Yes	No	No	7RWRGT	Yes	Yes	No	No
33MC9U	Yes	Yes	No	No	7VURTQ	Yes	Yes	No	No
3AMYEV	Yes	Yes	No	No	87T8GM	Yes	Yes	No	No
3BXERA	Yes	Yes	No	No	8ARHCM	Yes	Yes	No	No
3CB7KQ	Yes	Yes	No	No	8EKM47	Yes	Yes	No	No
3DQQQ3	Yes	Yes	No	No	8RVMTQ	Yes	Yes	No	No
3E4HGY	Yes	Yes	No	No	8T8RDM	Yes	Yes	No	No
3VN9GX	Yes	Yes	No	No	8WLR9U	Yes	Yes	No	No
42CXTV	Yes	Yes	No	No	8XZW7R	Yes	Yes	No	No
4JAH8U	Yes	Yes	No	No	98HUA3	Yes	Yes	No	No
66ATY2	Yes	Yes	No	No	9DBWFM	Yes	Yes	No	No
6G2F6W	Yes	Yes	No	No	9JCBY4	Yes	Yes	No	No
6Q3KXP	Yes	Yes	No	No	9MZ4BT	Yes	Yes	No	No
6RMJCV	Yes	Yes	No	No	9UA9M3	Yes	Yes	No	No
6YH769	Yes	Yes	No	No	9XYY9N	Yes	Yes	No	No
78BXRT	Yes	Yes	No	No	A3JXZ2	Yes	Yes	No	No
7HTVUX	Yes	Yes	No	No	AD7ETV	Yes	Yes	No	No

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
AJ7E7J	Yes	Yes	No	No	DXVP6X	Yes	Yes	No	No
AKNNGR	Yes	Yes	No	No	DZMJ4M	Yes	Yes	No	No
B24293	Yes	Yes	No	No	DZPTWR	Yes	Yes	No	No
B4UHNP	Yes	Yes	No	No	E2D2KE	Yes	Yes	No	No
B73C7M	Yes	Yes	No	No	EFWRJG	Yes	Yes	No	No
B99FTQ	Yes	Yes	No	No	EGPHPV	Yes	Yes	No	No
BBXRY	Yes	Yes	No	No	EJUBLF	Yes	Yes	No	No
BBVCKH	Yes	Yes	No	No	ENBWRN	Yes	Yes	No	No
BHD7XM	Yes	Yes	No	No	ENQWDH	Yes	Yes	No	No
BJMRAM	Yes	Yes	No	No	EPKMJW	Yes	Yes	No	No
BLE9MN	Yes	Yes	No	No	F42HBL	Yes	Yes	No	No
C94ZXH	Yes	Yes	No	No	F6N4XG	Yes	Yes	No	No
CAT4RP	Yes	Yes	No	No	FCR4GJ	Yes	Yes	No	No
CAUYCF	Yes	Yes	No	No	FDZXWW	Yes	Yes	No	No
CDTEMP	Yes	Yes	No	No	FEW9VK	Yes	Yes	No	No
CJJPWM	Yes	Yes	No	No	FKLQBG	Yes	Yes	No	No
CQ7XHL	Yes	Yes	No	No	FM8BFL	No Interp	No Interp	No Interp	No Interp
CVD7LN	Yes	Yes	No	No	FMAZHX	Yes	Yes	No	No
CZR9LL	Yes	Yes	No	No	FNJABU	Yes	Yes	No	No
DE9EGL	No Interp	No Interp	No Interp	No Interp	FRHL7U	Yes	Yes	No	No
DW2YYJ	Yes	Yes	No	No	FUA3LG	Yes	Yes	No	No

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
G9NMJF	Yes	Yes	No	No	L7MVFC	Yes	Yes	No	No
GBTXEB	Yes	Yes	No	No	L8DWJE	Yes	Yes	No	No
H3GJ7M	Yes	Yes	No	No	L9L79Q	Yes	Yes	No	No
H3XFYL	Yes	Yes	No	No	LLYRWD	Yes	Yes	No	No
HBUBWK	Yes	Yes	No	No	LNMH7B	Yes	Yes	No	No
HF3DJT	No Interp	No Interp	No Interp	No	LPFU4H	Yes	Yes	No	No
HJ4GBF	Yes	Yes	No	No	LRZKT7	Yes	Yes	No	No
HWM4HR	Yes	Yes	No	No	LXBZWJ	Yes	Yes	No	No
J2WGZQ	Yes	Yes	No	No	MQ7W9P	Yes	Yes	No	No
J63MEK	Yes	Yes	No	No	MVJZW7	Yes	Yes	No	No
J6EYVG	Yes	Yes	No	No	N6N8C7	Yes	Yes	No	No
J84NEG	Yes	Yes	No	No	NDFM2B	Yes	Yes	No	No
JABMDA	Yes	Yes	No	No	NJL2JE	Yes	Yes	No	No
JTLEEQ	Yes	Yes	No	No	NM7979	Yes	Yes	No	No
K2TEPC	Yes	Yes	No	No	NNYYCM	Yes	Yes	No	No
K4JFTF	Yes	Yes	No	No	NTRJHC	Yes	Yes	No	No
K8JNZB	Yes	Yes	No	No	P2VUP7	Yes	Yes	No	No
KJD6PC	Yes	Yes	No	No	P6TDPJ	Yes	Yes	No	No
KLYPUF	Yes	Yes	No	No	PHHBT3	Yes	Yes	No	No
KP2BJK	Yes	Yes	No	No	PN9MQK	Yes	Yes	No	No
KZK6XF	Yes	Yes	No	No	PYUAY9	Yes	Yes	No	No

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
PZKT2L	Yes	Yes	No	No	UHTFGH	Yes	Yes	No	No
Q2CRTD	Yes	Yes	No	No	UJ29A4	Yes	Yes	No	No
Q9DKP7	Yes	Yes	No	No	UL6J6Y	Yes	Yes	No	No
QPLZ89	Yes	Yes	No	No	UVDVL3	Yes	Yes	No	No
RAYNW4	Yes	Yes	No	No	UVYY84	Yes	Yes	No	No
RDL938	Yes	Yes	No	No	UWPBQA	Yes	Yes	No	No
RFRCPB	Yes	Yes	No	No	UZ9PGH	Yes	Yes	No	No
RGHR67	Yes	Yes	No	No	V2XBPZ	Yes	Yes	No	No
RQB3E2	Yes	Yes	No	No	V6ZEDF	No Interp	No Interp	No Interp	No
RRJFW3	Yes	Yes	No	Inc	V8PBU2	Yes	Yes	No	No
RXVNL8	Yes	Yes	No	No	VBQ8N3	Yes	Yes	No	No
RY4H2K	Yes	Yes	No	No	VDQYJD	Yes	Yes	No	No
RYZTY9	Yes	Yes	No	No	VEMD77	Yes	Yes	No	No
T7YZT2	Yes	Yes	No	No	VLLW7G	Yes	Yes	No	No
THDFX9	Yes	Yes	No	No	VMGXA7	Yes	Yes	No	No
TVXC26	Yes	Yes	No	No	W2WJ76	Yes	Yes	No	No
TW8LRG	Yes	Yes	No	No	WAC3Q6	Yes	Yes	No	No
TWTD3A	Yes	Yes	No	No	WCT7YE	Yes	Yes	No	No
TXND68	Yes	Yes	No	No	WTXZL2	Yes	Yes	No	No
TYJW89	Yes	Yes	No	No	WUCYP4	Yes	Yes	No	No
UET6KH	Yes	Yes	No	No	XEV7YC	Yes	Yes	No	No

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
XU938Z	Yes	Yes	No	No					
XWWU33	Yes	Yes	No	No					
XYJFPY	Yes	Yes	No	No					
XZHE88	Yes	Yes	No	No					
XZUU3D	Yes	Yes	No	No					
Y8ATBW	Yes	Yes	No	No					
Y94JGB	Yes	Yes	No	No					
YP9D4X	Yes	Yes	No	No					
YPRRFU	Yes	Yes	No	No					
YYFMGV	Yes	Yes	No	No					
YYXC2B	Yes	Yes	No	No					
YZ9DMA	Yes	Yes	No	No					
Z7VLMU	Yes	Yes	No	No					
Z7XY64	Yes	Yes	No	No					
Z93799	Yes	Yes	No	No					
ZJ7Y4V	Yes	Yes	No	No					
ZLND8V	Yes	Yes	No	No					
ZMKE9Z	Yes	Yes	No	No					
ZNBXDY	Yes	Yes	No	No					

**DNA Interpretation****Response Summary****Participants reporting DNA results: 185**

*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>181</b>	<b>181</b>	<b>0</b>	<b>0</b>
No	<b>0</b>	<b>0</b>	<b>181</b>	<b>182</b>
Inc	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>
No Interpretation	<b>4</b>	<b>4</b>	<b>4</b>	<b>2</b>
No Response	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Participants analyzing DNA for database purposes only: 0**



# Additional Comments

## TABLE 5

WebCode	Additional Comments
27DFZW	N/A = Not Applicable
2NX7YW	na = Not Applicable
33MC9U	NR=No Results. STRmix analysis was conducted on Item 4e. Data for all reported items was generated using Genemapper ID-X.
3BXERA	NR = No results. Item 3 - YS negative; no male DNA detected and not analyzed for Y-STR. Item 4 - YS positive.
6G2F6W	The D12S391 was not used for statistical analysis per our laboratory procedure manual.
6Q3KXP	Analyst is not trained and signed off on differential extraction for samples containing semen. Therefore, Item 4 was processed using a DNA-IQ non-differential extraction, which includes the DTT reagent. Item 4: D22S1045 appears to have drop-out due to an allele that could be from victim (Item 1) in positive stutter position. Victim (Item 1) is otherwise represented in the mixture present.
6YH769	NR = no results. Item 3: Y-screen negative. Item 4: Y-screen positive.
78BXRT	Extraction: Item 1 and Item 2 were extracted using chelex method. Item 3 and Item 4 were extracted using QIA Symphony DNA Investigator Kit via QIA Symphony SP platform. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio DNA Quantification Kit on RT-PCR QuantStudio 5 System. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using GlobalFiler kit on 9700 GeneAmp PCR System. Y-STR amplification was carried out on Item 2 and Item 4 using AmFISTR Y-STR Kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis of GlobalFiler for Item 1, Item 2, Item 3 and Item 4 and Y-Filer for Item 2 and Item 4 were carried out on Genetic Analyzer 3500xL. Quality Control: Reagent blank, positive control and negative control were incorporated throughout analysis and all gave intended results. NM: non-male profile.
7HTVUX	NR = No DNA result
7P6QDQ	NR = No Results. The data reported out in this test is from analysis using GeneMapper ID-X. STRmix analysis was conducted on this test.
7VURTQ	"N/A" = Not Applicable
8EKM47	Y-Screen (YS) Results: 1A - Not performed. 1B - Not performed. 1C - YS negative. 1D - YS positive. NR = no results
8XZW7R	Extraction: Item 1 and Item 2 extracted using Chelex method. Item 3 and Item 4 extracted using DNA Investigator Kit via QIA Symphony SP. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio DNA Quantification Kit on RT-PCR QuantStudio 5 System. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using GlobalFiler kit on 9700 GeneAmp PCR System. Y-STR amplification was carried out on Item 2 and Item 4 using AmFISTR Y-Filer Kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis of GlobalFiler for Item 1, Item 2, Item 3 and Item 4 and Y-Filer for Item 2 and Item 4 were carried out on Genetic Analyzer 3500xL. Quality Control: Reagent blank, positive control and negative control were incorporated throughout the analysis and all gave the intended results. NM: non-male profile.
98HUA3	Peaks modeled as stutter (MAS) not included in allele tables per laboratory policy.
9DBWFM	Item 4e: probabilistic genotyping was used to support inclusion/exclusion.
9MZ4BT	Item 4 e-cell fraction was the only sample to have a mixture on which to use PGS.

TABLE 5

WebCode	Additional Comments
9UA9M3	YS results - item 3 negative, item 4 positive. NR = no results.
B24293	NR: No Result(s). Item 3 was Y-Screen negative, so no differential extraction & no Y-STR analysis performed. Item 4 was Y-Screen positive.
B73C7M	-"NR" is defined as "No Results". - The data reported out in this test is from analysis using GeneMapper ID-X. - STRmix analysis was conducted on this test.
BHD7XM	N/A = Not Applicable
BJMRAM	STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X. "NR" is defined as "No Results".
CJJPWM	Extraction: Item 1, Item 2 and Item 3 were extracted using the Automate Express Forensic DNA Extraction System with PrepFiler Express Kit method while Item 4 were extracted using the Chelex extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using the Quantifiler Human DNA Quantification kit on the Applied Biosystem QuantStudio 5 Real-Time PCR System. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using the Globalfiler PCR Amplification kit on the 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification was carried out on Item 2 and Item 4 using the AmpFISTR Y-filer PCR Amplification kit on the 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on the Applied Biosystems 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 1, Item 2, Item 3 and Item 4 (Globalfiler). Electrophoresis for Y-Filer was carried out on the Applied Biosystems 3500xl Genetic Analyzer with GeneMapper ID-X Software for Item 2 and Item 4. Quality Control: Reagent blank, positive control and negative control were carried out throughout the analysis and all gave intended results. Abbreviation: NM : Non-male Profile.
CZR9LL	1) For Item 3 we performed non-differential extractions. As the result we obtained female DNA which derive from the Victim (Item 1). 2) For Item 4 we performed differential extraction: -In sample Item4M (Item 4sp - sperm fraction) we obtained male DNA which doesn't derive from the Suspect (Item 2). -In sample Item4Z (Item 4e - epithelial fraction) we obtained DNA mixture derived from at least two people. In mixture we indicated DNA alleles compatible to DNA profile of the Victim (Item 1) and DNA alleles compatible with person which male profile DNA was obtained in sample Item4M. DNA doesn't derive from the the Suspect (Item 2). We performed statistical analysis of results using "LRMix studio v.2.1.5-Community Edition" as do we do with normal results. Value of LR was interpreter of value of the proof and was express in words, using the [Location Identifying Organization] recommendation ([Location Identifying Organization] guideline of evaluative reporting in forensic science, 2015) LR value was count for: - Item 3 (for which was performed non-differential DNA extraction). - Item 4Z (Item 4e - epithelial fraction of differential DNA extraction). - Item 4M (Item 4sp - sperm fraction of differential DNA extraction). We had confirmed comparative material from Victim (Item 1) and the Suspect (Item 2) to proceed with analysis. Calculations was based on population database for [Location Identifying Population]. We used allele frequencies from that database. ([Location Identifying Database])). The statistical analysis contains below conclusions: 1) Proof from genetic analysis from Item 3 gives extreme high support (LR= 3,5 x 10 ^ 28) for hypothesis, that this sample contains DNA of the Victim (Item 1), against to alternative hypothesis saying that this sample contains DNA of different, unknown (NN), coincidental, not related person. 2) Proof from genetic analysis from Item 4Z (Item 4e - epithelial fraction) gives extreme high support (LR= 9,99 x 10 ^ 12) for hypothesis, that this sample contains DNA of the Victim (Item 1) and DNA different, unknown (NN), coincidental, not related person in population, against to alternative hypothesis saying that this sample contains DNA of two different, unknown (NN), coincidental, not related people.
DE9EGL	PowerPlex Fusion 6C sample processing was conducted on item 3 and item 4. Autosomal analysis and interpretation was not conducted. Modified Rapid DNA Analysis was conducted on item 2. No comparison to evidence was made.
DW2YYJ	NR= no results. STRmix analysis was conducted on this test. Data reported out in this test is from analysis using GeneMapper ID-X.

TABLE 5

WebCode	Additional Comments
DXVP6X	STRmix analysis was conducted on this test
DZMJ4M	Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using the Chelex extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using the Applied Biosystems™ Quantifiler™ Human DNA Quantification Kit on the Applied Biosystems™ QuantStudio™ 5 Real-Time PCR System. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using the Applied Biosystems™ GlobalFiler™ PCR Amplification Kit on the Applied Biosystems™ GeneAmp™ PCR System 9700. The Item 2 and Item 4 were also amplified using the Applied Biosystems™ AmpFLSTR™ Yfiler™ PCR Amplification Kit on the Applied Biosystems™ GeneAmp™ PCR System 9700. Electrophoresis: Electrophoresis was carried out on the Applied Biosystems™ 3500xL Genetic Analyzer and the data were analyzed with Applied Biosystems™ GeneMapper™ ID-X Software v1.5. Quality control: Reagent Blank, Positive Control and Negative Control were included throughout the analysis, and all gave intended results. Remark: 'NM' denotes non-male profile.
EFWRJG	Probabilistic genotyping was used to support inclusion/exclusions.
EGPHPV	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
ENQWDH	NR = No Results. STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X.
FDZXWW	NR = No results. Y-Screen Results: Item 3 - Negative. Item 4 - Positive.
FKLQBG	STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X. NR = no results.
FMAZHX	Y-Screening results: Item 3: Negative. Item 4: Positive.
G9NMJF	N/A = not applicable
HF3DJT	No male DNA was detected on sample Q1.3.1 at the quantitation step. Therefore, no further testing was performed.
HWM4HR	STRmix analysis was conducted on this test.
J2WGZQ	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
JTLEEQ	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
K2TEPC	NR= No Results. STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X.

TABLE 5

WebCode	Additional Comments
K4JFTF	Extraction: -Item 1, Item 2 and Item 4 were extracted using Chelex extraction method. -Item 3 was extracted using the Automate Express by Prepfil Express Kit. Quantification: -Item 1, Item 2, Item 3, Item 4 were quantified using Quantifiler Trio DNA Quantification Kit on QuanStudio 5 Real-Time PCR System. Amplification: -Item 1, Item 2, Item 3 and Item 4 were amplified using the GlobalFiler Amplification kit. -Item 2, and Item 4 were amplified using Y-Filer Kit. -All amplifications performed on Proflex PCR system. Electrophoresis -All amplified product were run on Genetic Analyzer 3500. Quality Control: -All reagent blank, positive control and negative control were carried out throughout the analysis and gave intended results. Remarks: -NM: Non-male profile.
K8JNZB	Probabilistic genotyping was used to support inclusions/exclusions.
KJD6PC	NR = No Results. STRmix analysis was conducted on this test. Data reported out in this test is from analysis using GeneMapper ID-X.
KZK6XF	1. Extraction: Chelex extraction method was used to extract DNA from Item 1 to Item 4. 2. Quantification: DNA quantification for Item 1 to Item 4 was carried out using Quantifiler Human DNA Quantification Kit with Applied Biosystem Real Time Polymerase Chain Reaction 7500 System. 3. Amplification: Amplification of STR (Short Tandem Repeat) Genetic Loci was carried out on Item 1 to Item 4 using Globalfiler PCR Amplification Kit on the ProFlex PCR System. Amplification of Y-STR (Short Tandem Repeat) Genetic Loci was carried out on Item 2 and Item 4 using the AmpFISTR Y-Filer PCR Amplification Kit on the 9700 GeneAmp PCR System. 4. Electrophoresis: Electrophoresis was carried out using Applied Biosystem 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 1 to Item 4 (Globalfiler). Electrophoresis for Y-Filer was carried out using Applied Biosystem 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 2 and Item 4. 5. Reagent blank, positive control and negative control were carried out throughout the analysis and all gave intended results. 6. 'NM' denotes non-male profile.
L7MVFC	NR=No Results. STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X. The original test contained two "Item 2" envelopes and no "Item 1" envelope. A replacement test was requested and received. The results reported are from the replacement test.
L9L79Q	The Y-screen result for item 3 was negative and for item 4 was positive. Item 3 was not tested using a YSTR kit.
LNMH7B	probabilistic genotyping was used to support inclusion/exclusions.
LRZKT7	Y-Screen Testing using Quantifiler Trio on item 3 and 4. Item 3 is negative for male DNA. Item 4 is positive for male DNA.
MQ7W9P	NR = no results. Y-STR analysis was not performed on item 3. Y-Screen results: 1C = negative. 1D = positive.
NDFM2B	Extraction : Item 1 & Item 2 were extracted using chelex extraction method. Item 3 & Item 4 were extracted using QIASymphony extraction method. Quantification : Item 1&2&3&4 were quantified using ABI Quantifiler Trio DNA Quantification Kit on ABI Quanstudio 5 Real Time PCR System. Amplification : Item 1&2&3&4 were amplified using Globalfiler PCR Amplification Kit on the 9700 ABI GeneAmp PCR System. YSTR Amplification was carried out on Item 2 & Item 4 using AmpFLSTR YFiler PCR Amplification Kit on 9700 ABI GeneAmp PCR System. Electrophoresis : Electrophoresis were carried out on ABI 3500xl Genetic Analyzer with GeneMapper ID-X Software for Item 1, Item 2, Item 3 and Item 4 (Globalfiler kit). Electrophoresis for Y- Filer Were carried out on ABI 3500xl Genetic Analyzer with GeneMapper ID-X Software for Item 2 and Item 4. Quality Control : Reagent Blank, Positive Control and Negative Control were carried throughout analysis and all give intended results. Abbreviation : NM - Non-male profile.
NNYYCM	STRmix analysis was conducted on this test.
P2VUP7	Probabilistic genotyping was used to support inclusion/exclusions.

TABLE 5

WebCode	Additional Comments
PN9MQK	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
PZKT2L	Y-STR analysis was not performed on Item 1 or Item 3 because no male DNA was detected using Quantifiler Trio.
Q9DKP7	NR = No Result. STRmix analysis conducted on this test. Reported data analyzed with GeneMapper ID-X.
RAYNW4	Probabilistic genotyping was used to support inclusions/exclusions.
RDL938	Extraction : Item 1 and Item 2 were extracted using Chelex method. Item 3 and Item 4 were extracted using DNA Investigator Kit via QIAAsymphony SP. Quantification : Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio DNA Quantitation Kit on RT-PCR QuantStudio 5 system. Amplifications : Item 1, Item 2, Item 3 and Item 4 were amplified using the GlobalFiler kit on 9700 GeneAmp PCR System. Y-STR amplification was carried out on Item 2 and Item 4 using AmpFISTR Y-File kit on 9700 GeneAmp PCR System. Electrophoresis : Electrophoresis of GlobalFiler for Item 1, Item 2, Item 3 and Item 4 and Y-File for Item 2 and Item 4 were carried out on Genetic Analyzer 3500xL. Quality Control : Reagent Blank, Positive Control and Negative Control were incorporated throughout the analysis and all gave the intended results. NM: non-male profile.
RGHR67	NR = No Results. The data reported is from analysis using GeneMapper ID-X. STRmix analysis was performed on this test.
RRJFW3	Probabilistic genotyping was used to support inclusions/exclusions.
RXVNL8	Note: Inclusions and exclusions were conducted by the analyst outside of the STRmix software program. STRmix was used, however, to calculate a likelihood ratio on the following proposition: Submission 1A (Item 3): 1Cs_U. Modified Rapid DNA Analysis was conducted on item 1 (submission 1C) with ANDE, and on item 2 (submission 1D) with RHID. PowerPlex Y23 was run on item 4 (submission 1B), and item 2 (submission 1D) for sample processing only. NID = No Interpretable Data.
RY4H2K	NR= No Results. YS Assay Results: Item 3= Negative; Item 4= Positive.
TW8LRG	STRmix analysis was conducted on this test.
UET6KH	Y-STR analysis was not performed on items 1 or 3 because no male DNA was detected using Quantifiler Trio.
UWPBQA	NR- no DNA result, [ ] = lighter intensity allele
UZ9PGH	Y-Screen performed on items 3 and 4: item 3 negative, item 4 positive. Item 3 not analyzed for Y-STR's.
V6ZEDF	Q1.3.1 was stopped at quant due to a "no male" result (this case was only tested for Y-STRs).
VBQ8N3	NA = not applicable.
VLLW7G	NR=no results. Y-Screening (male DNA), QF Trio: Item 3 (negative), Item 4 (positive).
XEV7YC	When analyzing item 4, it was observed that in the marker D22S1045 the complete genotype of the victim is not included in the epithelial fraction due to a possible dropout effect of allele 16. However, the policy of this laboratory is to report the sperm fraction if the genetic profile of a complete male is obtained, and the epithelial fraction is not reported. Due to this, the analysis of the epithelial fraction was not continued.



## Test No. 25-5801: DNA-Mixture

DATA MUST BE SUBMITTED BY **March 10, 2025, 11:59 p.m. EDT** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: Z7UTQ8

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

### Scenario:

Police are investigating a sexual assault involving a female victim and male suspect. The victim reported to police that she awoke in the suspect's bed unclothed and does not remember how she got there. The suspect has been apprehended. Police are submitting to your laboratory a stain from the shirt the suspect was wearing when he was apprehended (Item 3) and a stain from the underwear the victim wore after she awoke (Item 4). Screening tests have been performed on both samples with the following results: Item 3 (suspect's shirt) is positive for blood, and Item 4 (victim's underwear) is positive for blood and semen. Also collected were known blood samples from the female victim (Item 1) and the male suspect (Item 2).

### Items Submitted (Sample Pack S1):

Item 1: Known blood from the female victim

Item 2: Known blood from the male suspect

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

Item 4: Questioned blood and semen stain from victim's underwear (yellow)

**Part I: DNA Results for Known Item 1**

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X) and null responses.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].

**STR Amplification Kit(s) Used:**

Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

Identifiler® 
 GlobalFiler™ 
 Investigator® 24plex 
  
 PowerPlex® 
 Other

Report the Probabilistic Genotyping Software Used (if applicable):

*Alleles below are sorted in Default order.*

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1						
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
1						
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
1						
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
1						
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
1						











### 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"/>	<input type="radio"/>
No	<input type="radio"/>	<input type="radio"/>	No	<input type="radio"/>	<input type="radio"/>
Inconclusive	<input type="radio"/>	<input type="radio"/>	Inconclusive	<input type="radio"/>	<input type="radio"/>
No Interpretation	<input type="radio"/>	<input type="radio"/>	No Interpretation	<input type="radio"/>	<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.

**Note:** Please use appropriate punctuation to indicate the end of sentences, sections, and statements in the free-form space below. Extra spacing and returns used for separation within your text will not transfer and may cause your information to be illegible in the Summary Report. The use of lists and tabular formats to deliver information is also cautioned against, as these do not transfer.

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

A2LA Certificate No.

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

Authorized Contact Person and Title

Laboratory Name

Location (City/State)