



DNA-Semen Test No. 18-5804

Summary Report

Each participant received a sample pack consisting of two known bloodstains and two questioned stains which they were requested to analyze using their existing protocols. Data were returned from 181 participants and are compiled into the following tables:

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

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

Manufacturer's Information

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

SAMPLE PREPARATION: The stains on Items 1, 2, and 4 were prepared using human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. The stain on Item 3 was a mixture prepared from human whole blood and semen. The semen was first thawed and mixed 1:1 with TAE buffer, then mixed with the blood. Items 1 (50 μ l) and 4 (50 μ l) were each created using blood from the same female donor. Item 2 (50 μ l) was created using blood from a male donor. Item 3 (50 μ l) was created using a 1:1 mixture of blood from the female donor found in Items 1 and 4 with semen from the male donor used in Item 2. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on July 3, 2018 following completion of the verification stage.

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

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

Manufacturer's Information, continued

Amelogenin and STR Results						
<i>Results compiled from predistribution laboratories and a consensus of at least 10 participants.</i>						
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	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	14,16	16,20	10,14	16,18	10,12	13,18
	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2.2,12	8,17	18,23.2	8,8	8,11
	16,18	NM	NM	NM	NM	
2	15.3,16.3	17,19	11,14	14,18	11,11	11,11
	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9,9	5,7	27.2,29.2	6,6	8,9
	14,15	11	19	19	2	
3-Blood	14,16	16,20	10,14	16,18	10,12	13,18
	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2.2,12	8,17	18,23.2	8,8	8,11
	16,18	NM	NM	NM	NM	
3-Semen	15.3,16.3	17,19	11,14	14,18	11,11	11,11
	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9,9	5,7	27.2,29.2	6,6	8,9
	14,15	11	19	19	2	
4	14,16	16,20	10,14	16,18	10,12	13,18
	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2.2,12	8,17	18,23.2	8,8	8,11
	16,18	NM	NM	NM	NM	

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

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

Summary Comments

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

Of the 181 participants that returned results, 177 reported DNA interpretations. Three participants stated that the samples were only analyzed for database purposes.

Seventeen participants reported allelic results that differed from consensus/predistribution results for one or more items. These inconsistencies are detailed below.

For the Item 1 stain, all participants reported allelic results that matched the consensus/predistribution results.

For the Item 2 stain, two participants reported allelic results that differed from consensus/predistribution results. One participant reported an allele call of "15.3,16" at the D1S1656 locus where the consensus allele calls were "15.3,16.3". One participant was missing the "14" allele at the DYS385 locus.

For the Item 3 stain, 176 participants that reported interpretations included the victim (Item 1) as a possible contributor and one excluded the victim (Item 1). All of the 177 participants that reported interpretations included the suspect (Item 2) as a possible contributor. For the female fraction for Item 3, nine participants reported additional alleles at one or more loci compared to the consensus and two participants were missing an allele at one or more loci. For the male fraction of Item 3, three participants reported additional alleles at one or more loci and one participant was missing an allele at one locus. Two participants that returned mixture results for Item 3 instead of separating the female and male components reported a combination of additional and inconsistent results as well as were missing alleles reported by the consensus.

For the Item 4 stain, all 177 participants that reported interpretations included the victim (Item 1) as a possible contributor. All 176 participants that reported interpretations excluded the suspect (Item 2) as a possible contributor. One participant did not provide a response for the interpretation of the suspect (Item 2) as a possible contributor to the Item 4 stain. One participant reported additional alleles at multiple loci for Item 4 and another participant reported an inconsistent allele at the D19S433 locus.

A total of 22 total participants reported the use of probabilistic genotyping software. Of these, one participant reported using TrueAllele and one reported using LRmix Studio. They rest indicated the use of STRmix. Eight participants reported additional alleles while using STRmix and indicated in their comments that stutter peaks could potentially be included with their allelic results. The participant who reported using LRmix Studio was missing an allele as well as reported an additional allele for Item 3.

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

2C8TAX	GlobalFiler™ Express (STRMIX)					
		14,16	16,20	10,14	16,18	10,12
1		8,12	12,16	13,14	17,24	11,12
		14,15	14,15.2	28,28	15,17	X,X
		20,22			18,23.2	8,8
		16,18				8,11
<hr/>						
2G68WM	Identifiler® Plus					
		-	16,20	-	16,18	10,12
1		8,12	12,16	-	-	11,12
		14,15	14,15.2	28	-	X,X
		20,22	-	-	-	8
		16,18	-	-	-	8,11
<hr/>						
2LG6HN	PowerPlex® 21					
		14,16	16,20		16,18	10,12
1		8,12	12,16		17,24	11,12
		14,15	14,15.2	28,28		X,X
		20,22	2.2,12	8,17		8,8
		16,18				13,18
<hr/>						
2LJPCJ	PowerPlex® Fusion					
		14,16	16,20	10,14	16,18	10,12
1		8,12	12,16	13,14	17,24	11,12
		14,15	14,15.2	28	15,17	X
		20,22	2.2,12	8,17		8
		16,18				8,11
<hr/>						
2XD4FM	Identifiler® Plus					
			16,20		16,18	10,12
1		8,12	12,16			11,12
		14,15	14,15.2	28		X,X
		20,22				8
		16,18				8,11
<hr/>						
3BW9ZN	Identifiler®					
			16,20		16,18	10,12
1		8,12	12,16			11,12
		14,15	14,15.2	28,28		X,X
		20,22				8,8
		16,18				8,11

TABLE 1

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

Item 1 - STR Results

3HR9BA	PowerPlex® Fusion 5C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
3J86P8	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
3NFV7F	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
3R2FBJ	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18	NR			NR	
3U9VKB	Investigator® 24plex					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
3WEFAW	Investigator® 24plex					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
43FWJG	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	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

4BNNLJ	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X,X	11
	20,22			18,23.2	8	8,11
	16,18					
4CHC7Z	GlobalFiler™ Express					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18	NA			NA	
4FE37K	PowerPlex® 17 Fast					
	14,16	16,20	10,14	16,18		
1		12,16	13,14	17,24		11,13
	14,15	14,15.2	28,28	15,17	X,X	
	20,22			18,23.2	8,8	
	16,18					
4X2E4K	Identifiler® Plus					
	-	16,20	-	16,18	10,12	-
1	8,12	12,16	-	-	11,12	11,13
	14,15	14,15.2	28	-	X,X	11
	20,22	-	-	-	8	8,11
	16,18	-	-	-	-	
6CJY77	GlobalFiler™ Direct					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
6DWZ67	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
6HNXGV	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	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

6L49UZ	GlobalFiler™ (STRmix)					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
6MYFPJ	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
6NE3HC	NGM SElect					
	14,16	16,20	10,14	16,18		
1		12,16	13,14	17,24		11,13
	14,15	14,15.2	28,28	15,17	X,X	
	20,22			18,23.2	8,8	
	16,18					
6RRF8L	Identifiler® Plus					
		16,20		16,18	10,12	
1	8,12	12,16			11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22				8,8	8,11
	16,18					
6XHR8N	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
6XXCQL	Identifiler® Plus					
		16,20		16,18	10,12	
1	8,12	12,16			11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22				8,8	8,11
	16,18					
76DFQD	PowerPlex® 21					
	14,16	16,20		16,18	10,12	13,18
1	8,12	12,16		17,24	11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	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

7AQXTA	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
7BZ39J	Identifiler® Plus					
		16,20		16,18	10,12	
1	8,12	12,16			11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22				8,8	8,11
	16,18					
7GNMCZ	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
7MFUU9	PowerPlex® ESI Fast					
	14,16	16,20	10,14	16,18		
1		12,16	13,14	17,24		11,13
	14,15	14,15.2	28,28	15,17	X,X	
	20,22				8,8	
	16,18					
7QE9HX	GlobalFiler™ Express					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18	NR			NR	
7RLPD9	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
7XVLHH	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X,X	11
	20,22			18,23.2	8	8,11
	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

7YABJA	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
84F2NZ	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
89UCN3	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
8AK3MA	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
8L4E6D	GlobalFiler™ (TrueAllele)					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
93YLBB	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
96B7HZ	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	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

98BFNV	GlobalFiler™ Express					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18	NR			NR	
9DFB9V	GlobalFiler™ Express					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18	NR			NR	
9TEZMF	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X,X	11
	20,22			18,23.2	8	8,11
	16,18	-			-	
A2LELM	Investigator® 24plex					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
AFLYLZ	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
AHTB6M	Investigator® 24plex QS					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
APQ7ZY	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	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

AWMZYX	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
B3TWHX	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
BDP3AB	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
BHNNCR	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
BL97KJ	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18	-			-	
BUG8QX	Investigator® 24plex					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
C39FZA	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22			18,23.2	8,8	8,11
	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

C3NWWA	Investigator® 24plex GO					
	14,16	16,20	10,14	16,18	10,12	N/A
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	N/A	N/A	18,23.2	8,8	8,11
	16,18	N/A	N/A	N/A	N/A	
CE3LHR	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
CEJ84A	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
CGMDUU	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
CJVG7	Identifiler® Plus					
		16,20		16,18	10,12	
1	8,12	12,16			11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22				8,8	8,11
	16,18					
CN8XRM	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
CT4Z3V	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	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

DNMHCK	Investigator® 24plex QS					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
DR8WV7	Identifiler® Plus (STRmix)					
		16,20		16,18	10,12	
1	8,12	12,16			11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22				8,8	8,11
	16,18					
DTX6WU	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
E8W2J9	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X,X	11
	20,22			18,23.2	8	8,11
	16,18					
EBVF8X	PowerPlex® Fusion 5C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
EHD18B	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
EKK42Z	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	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

ERHTMB	PowerPlex® 21					
	14,16	16,20		16,18	10,12	13,18
1	8,12	12,16		17,24	11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
EWFCPA	Identifiler® Plus					
	-	16,20	-	16,18	10,12	-
1	8,12	12,16	-	-	11,12	11,13
	14,15	14,15.2	28	-	X,X	11
	20,22	-	-	-	8	8,11
	16,18	-	-	-	-	
FE8M2B	PowerPlex® 21					
	14,16	16,20		16,18	10,12	13,18
1	8,12	12,16		17,24	11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
FJ7WFJ	Investigator® 24plex					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
FPUJ94	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
FQ4NK7	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
G2EKX9	PowerPlex® 21					
	14,16	16,20		16,18	10,12	13,18
1	8,12	12,16		17,24	11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	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

GDWXXJ	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18	NR				
GGEKA4	PowerPlex® 21 (STRmix version 2.4.05)					
	14,16	16,20		16,18	10,12	13,18
1	8,12	12,16		17,24	11,12	11,13
	14,15	14,15.2	28,28		XX	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
GKURFW	Investigator® 24plex					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
GRQMDV	PowerPlex® Fusion 5C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
GUEQVL	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
GVANE9	PowerPlex® 21					
	14,16	16,20		16,18	10,12	13,18
1	8,12	12,16		17,24	11,12	11,13
	14,15	14,15.2	28,28		XX	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
GXGYDX	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	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

H39XDR	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
H8ZT4K	GlobalFiler™ Express					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18	NR			NR	
HEJQGR	GlobalFiler™ Direct					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
HJX4LK	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
HQDEN8	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
J7NDAJ	GlobalFiler™ Express					
	14,16	16,20	10,14	16,18	10,12	NT
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	NT	NT	18,23.2	8	8,11
	16,18	NR	NT	NT	NR	
JHJ2CR	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	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

K3K2TA	PowerPlex® 16 HS					
				16,18	10,12	
1	8,12	12,16			11,12	11,13
	14,15		28,28		X,X	11,11
	20,22	2,2,12	8,17		8,8	8,11
	16,18					
K7329P	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18	NR			NR	
K9ALV6	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2,2,12	8,17		8	8,11
	16,18					
KDEHE6	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2,2,12	8,17		8	8,11
	16,18					
KDG8M9	PowerPlex® Fusion 5C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2,2,12	8,17		8,8	8,11
	16,18					
KJQ4RH	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2,2,12	8,17		8	8,11
	16,18	NR				
KM62WJ	GlobalFiler™ Express					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	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 1 - STR Results

KV2XKM	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
KZBUNW	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
L94P2K	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
LRG9V3	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
MACTYL	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
MCX34Z	Identifiler® Plus					
		16,20		16,18	10,12	
1	8,12	12,16			11,12	11,13
	14,15	14,15.2	28		XX	11
	20,22				8	8,11
	16,18					
MEQ84F	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22			18,23.2	8,8	8,11
	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

MKV3MF	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
MP6NRZ	Identifiler®					
		16,20		16,18	10,12	
1	8,12	12,16			11,12	11,13
	14,15	14,15.2	28		X	11
	20,22				8	8,11
	16,18					
MVBMVX	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18	NR			NR	
MYA9YE	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2.2,12	8,17	18,23.2	8,8	8,11
	16,18	ND	ND	ND		
N76TDF	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
NG37J2	PowerPlex® 21					
	14,16	16,20		16,18	10,12	13,18
1	8,12	12,16		17,24	11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
NZGBXH	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	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

P2QE9L	GlobalFiler™					
		14,16	16,20	10,14	16,18	10,12
1		8,12	12,16	13,14	17,24	11,12 11,13
		14,15	14,15.2	28	15,17	X 11
		20,22			18,23.2	8 8,11
		16,18				
P7L7GH	GlobalFiler™					
		14,16	16,20	10,14	16,18	10,12
1		8,12	12,16	13,14	17,24	11,12 11,13
		14,15	14,15.2	28	15,17	X 11
		20,22			18,23.2	8 8,11
		16,18				
P8HA2Z	Identifiler®					
			16,20		16,18	10,12
1		8,12	12,16			11,12 11,13
		14,15	14,15.2	28,28		X,X 11,11
		20,22				8,8 8,11
		16,18				
PD7WUK	GlobalFiler™					
		14,16	16,20	10,14	16,18	10,12
1		8,12	12,16	13,14	17,24	11,12 11,13
		14,15	14,15.2	28,28	15,17	X,X 11,11
		20,22			18,23.2	8,8 8,11
		16,18	NR			NR
PHX73X	GlobalFiler™					
		14,16	16,20	10,14	16,18	10,12
1		8,12	12,16	13,14	17,24	11,12 11,13
		14,15	14,15.2	28	15,17	X,X 11
		20,22			18,23.2	8 8,11
		16,18				
PN4X9A	GlobalFiler™					
		14,16	16,20	10,14	16,18	10,12
1		8,12	12,16	13,14	17,24	11,12 11,13
		14,15	14,15.2	28,28	15,17	X,X 11,11
		20,22			18,23.2	8,8 8,11
		16,18				
PNNEQX	Identifiler® Plus					
			16,20		16,18	10,12
1		8,12	12,16			11,12 11,13
		14,15	14,15.2	28		X,X 11
		20,22				8 8,11
		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

PYKKBH	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18	NR				
QAY94E	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	XX	11
	20,22			18,23.2	8	8,11
	16,18					
QC3UHL	PowerPlex® Fusion 5C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18	Neg.				
QHCPMV	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22			18,23.2	8,8	8,11
	16,18	No Results			No Results	
QHT26Z	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
QHXPXT	Identifiler® Plus (STRmix)					
		16,20		16,18	10,12	
1	8,12	12,16			11,12	11,13
	14,15	14,15.2	28,28		XX	11,11
	20,22				8,8	8,11
	16,18					
QWQNF	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	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

QYEPCA	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18	NR				
R47NBH	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
RBPGFA	PowerPlex® Fusion 5C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18	NR				
RQ6KYJ	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
RU6T8Z	PowerPlex® Fusion 5C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
T48BGH	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
T6FLBZ	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	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

T8L9LJ	PowerPlex® Fusion 5C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
TAE8AB	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
TB4AMX	PowerPlex® 21					
	14,16	16,20		16,18	10,12	13,18
1	8,12	12,16		17,24	11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
TGW8K2	Identifiler®					
		16,20		16,18	10,12	
1	8,12	12,16			11,12	11,13
	14,15	14,15.2	28			11
	20,22				8	8,11
	16,18					
TMZ9HA	GlobalFiler™ Express					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18	NR			NR	
TRA3KD	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
TRRJT9	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18	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

TZ9WVD	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
U2R2PA	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
U4GUHQ	Investigator® 24plex GO!					
	14,16	16,20	10,14	16,18	10,12	N/A
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	N/A	N/A	18,23.2	8,8	8,11
	16,18	N/A	N/A	N/A	N/A	
U7LXCE	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
U8YYBU	PowerPlex® Fusion 5C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
UATNVB	GlobalFiler™ Express					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18	NR			NR	
UBY7T7	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18	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

UMUG2D	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
UT6D7M	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
VALVFZ	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
VG443B	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
VKZMQ8	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
VTFTF7	GlobalFiler™ Express					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18	NR			NR	
VTZ89Q	Investigator® 24plex GO!					
	14,16	16,20	10,14	16,18	10,12	N/A
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	N/A	N/A	18,23.2	8,8	8,11
	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

W927EC	GlobalFiler™						
		14,16	16,20	10,14	16,18	10,12	
	1	8,12	12,16	13,14	17,24	11,12	11,13
		14,15	14,15.2	28	15,17	X	11
		20,22			18,23.2	8	8,11
		16,18					
WFLALE	GlobalFiler™						
		14,16	16,20	10,14	16,18	10,12	
	1	8,12	12,16	13,14	17,24	11,12	11,13
		14,15	14,15.2	28	15,17	X	11
		20,22			18,23.2	8	8,11
		16,18					
WLWNJZ	PowerPlex® Fusion 6C						
		14,16	16,20	10,14	16,18	10,12	
	1	8,12	12,16	13,14	17,24	11,12	11,13
		14,15	14,15.2	28,28	15,17	X,X	11,11
		20,22	2.2,12	8,17	18,23.2	8,8	8,11
		16,18					
WM3BUJ	PowerPlex® Fusion						
		14,16	16,20	10,14	16,18	10,12	
	1	8,12	12,16	13,14	17,24	11,12	11,13
		14,15	14,15.2	28	15,17	X	11
		20,22	2.2,12	8,17		8	8,11
		16,18					
WM7XCW	Identifiler® Plus						
		-	16,20	-	16,18	10,12	-
	1	8,12	12,16	-	-	11,12	11,13
		14,15	14,15.2	28,28	-	X,X	11,11
		20,22	-	-	-	8,8	8,11
		16,18	-	-	-	-	
WWDZPM	PowerPlex® 21						
		14,16	16,20		16,18	10,12	13,18
	1	8,12	12,16		17,24	11,12	11,13
		14,15	14,15.2	28,28		X,X	11,11
		20,22	2.2,12	8,17		8,8	8,11
		16,18					
WZCQ4A	PowerPlex® Fusion 6C						
		14,16	16,20	10,14	16,18	10,12	
	1	8,12	12,16	13,14	17,24	11,12	11,13
		14,15	14,15.2	28	15,17	X	11
		20,22	2.2,12	8,17	18,23.2	8	8,11
		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

X8PQKB	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
X94LFX	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22	2.2,12	8,17	18,23.2	8,8	8,11
	16,18					
XFMREQ	Identifiler® Plus					
		16,20		16,18	10,12	
1	8,12	12,16			11,12	11,13
	14,15	14,15.2	28		XX	11
	20,22				8	8,11
	16,18					
XHTEQA	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
XIZUYZ	Investigator® 24plex					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
XRJHQ	Identifiler® Plus					
	-	16,20	-	16,18	10,12	-
1	8,12	12,16	-	-	11,12	11,13
	14,15	14,15.2	28	-	XX	11
	20,22	-	-	-	8	8,11
	16,18	-	-	-	-	
XU7GAL	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	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

XVC2XL	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
XXKJ6B	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
Y8PJ6J	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
Y9J8PZ	Investigator® 24plex					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
YFWFTM	Investigator® 24plex GO					
	14,16	16,20	10,14	16,18	10,12	N/A
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22	N/A	N/A	18,23.2	8,8	8,11
	16,18	N/A	N/A	N/A	N/A	
YL7CXW	GlobalFiler™ Express					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18	NR			NR	
YTKTC4	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	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

Z7MBEB	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
ZCGFG9	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
ZKUYZT	Investigator® 24plex					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
ZNRKHG	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
ZUWG2G	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
ZUY8BK	GlobalFiler™ (Genemapper ID-X)					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
ZV7N6A	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
1	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	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 2 - STR Results

2C8TAX	GlobalFiler™ Express (STRMIX)					
	15.3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	
2G68WM	Identifiler® Plus					
	-	17,19	-	14,18	11	-
2	12	13,14	-	-	8,11	13,14
	17,18	12,14	30,31	-	X,Y	10,11
	19,20	-	-	-	6	8,9
	14,15	-	-	-	-	
2LG6HN	PowerPlex® 21					
	15.3,16.3	17,19		14,18	11,11	11,11
2	12,12	13,14		17,20	8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15					
2LJPCJ	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
2XD4FM	Identifiler® Plus					
		17,19		14,18	11	
2	12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6	8,9
	14,15					
3BW9ZN	Identifiler®					
		17,19		14,18	11,11	
2	12,12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6,6	8,9
	14,15					
3HR9BA	PowerPlex® Fusion 5C					
	15.3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15	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

3J86P8	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	
3NFV7F	PowerPlex® Fusion					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
3R2FBJ	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6,6	8,9
	14,15	11			2	
3U9VKB	Investigator® 24plex					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11				
3WEFAW	Investigator® 24plex					
	15,3,16,3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6,6	8,9
	14,15	11				
43FWJG	PowerPlex® Fusion					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
4BNNLJ	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	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

4CHC7Z	GlobalFiler™ Express					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
4FE37K	PowerPlex® 17 Fast					
	15,3,16.3	17,19	11,14	14,18		
2		13,14	16,16	17,20		13,14
	17,18	12,14	30,31	15,17	X,Y	
	19,20			27.2,29.2	6,6	
	14,15					
4X2E4K	Identifiler® Plus					
	-	17,19	-	14,18	11	-
2	12	13,14	-	-	8,11	13,14
	17,18	12,14	30,31	-	X,Y	10,11
	19,20	-	-	-	6	8,9
	14,15	-	-	-	-	
6CJY77	GlobalFiler™ Direct					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
6DWZ67	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
6HNXGV	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
6L49UZ	GlobalFiler™ (STRmix)					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	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

6MYFPJ	PowerPlex® Fusion					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
6NE3HC	NGM SElect					
	15,3,16,3	17,19	11,14	14,18		
2		13,14	16,16	17,20		13,14
	17,18	12,14	30,31	15,17	X,Y	
	19,20			27,2,29,2	6,6	
	14,15					
6RRF8L	Identifiler® Plus					
		17,19		14,18	11,11	
2	12,12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6,6	8,9
	14,15					
6XHR8N	PowerPlex® Fusion					
	15,3,16,3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15	11				
6XXCQL	Identifiler® Plus					
		17,19		14,18	11,11	
2	12,12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6,6	8,9
	14,15					
76DFQD	PowerPlex® 21					
	15,3,16,3	17,19		14,18	11,11	11,11
2	12,12	13,14		17,20	8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15					
7AQXTA	PowerPlex® Fusion					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	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

7BZ39J	Identifiler® Plus					
		17,19		14,18	11,11	
2		12,12	13,14		8,11	13,14
		17,18	12,14	30,31	X,Y	10,11
		19,20			6,6	8,9
		14,15				
7GNMCZ	PowerPlex® Fusion 6C					
		15.3,16.3	17,19	11,14	14,18	11
2		12	13,14	16	17,20	8,11
		17,18	12,14	30,31	15,17	X,Y
		19,20	9	5,7	27.2,29.2	6
		14,15	11	19	19	8,9
7MFUU9	PowerPlex® ESI Fast					
		15.3,16.3	17,19	11,14	14,18	
2			13,14	16,16	17,20	13,14
		17,18	12,14	30,31	15,17	X,Y
		19,20				6,6
		14,15				
7QE9HX	GlobalFiler™ Express					
		15.3,16.3	17,19	11,14	14,18	11
2		12	13,14	16	17,20	8,11
		17,18	12,14	30,31	15,17	X,Y
		19,20			27.2,29.2	6
		14,15	11			8,9
					2	
7RLPD9	GlobalFiler™					
		15.3,16.3	17,19	11,14	14,18	11
2		12	13,14	16	17,20	8,11
		17,18	12,14	30,31	15,17	X,Y
		19,20			27.2,29.2	6
		14,15	11			8,9
					2	
7XVLHH	GlobalFiler™					
		15.3,16.3	17,19	11,14	14,18	11
2		12	13,14	16	17,20	8,11
		17,18	12,14	30,31	15,17	X,Y
		19,20			27.2,29.2	6
		14,15	11			8,9
					2	
7YABJA	PowerPlex® Fusion					
		15.3,16.3	17,19	11,14	14,18	11
2		12	13,14	16	17,20	8,11
		17,18	12,14	30,31	15,17	X,Y
		19,20	9	5,7	6	8,9
		14,15	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

84F2NZ	PowerPlex® Fusion 6C					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27,2,29,2	6	8,9
	14,15	11	19	19		
89UCN3	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	
8AK3MA	PowerPlex® Fusion					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
8L4E6D	GlobalFiler™ (TrueAllele)					
	15,3,16,3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6,6	8,9
	14,15	11,11			2	
93YLBB	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6,6	8,9
	14,15	11			2	
96B7HZ	PowerPlex® Fusion 6C					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27,2,29,2	6	8,9
	14,15	11	19	19		
98BFNV	GlobalFiler™ Express					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	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

9DFB9V	GlobalFiler™ Express					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
9TEZMF	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
A2LELM	Investigator® 24plex					
	15,3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11				
AFLYLZ	PowerPlex® Fusion 6C					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27.2,29.2	6	8,9
	14,15	11	19	19		
AHTB6M	Investigator® 24plex QS					
	15,3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11				
APQ7ZY	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	
AWMZYX	PowerPlex® Fusion 6C					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27.2,29.2	6	8,9
	14,15	11	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 2 - STR Results

B3TWHX	PowerPlex® Fusion 6C					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27.2,29.2	6	8,9
	14,15	11	19	19		
BDP3AB	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
BHNNCR	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	
BL97KJ	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
BUG8QX	Investigator® 24plex					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11				
C39FZA	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	
C3NWYA	Investigator® 24plex GO					
	15,3,16.3	17,19	11,14	14,18	11,11	N/A
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	N/A	N/A	27.2,29.2	6,6	8,9
	14,15	11	N/A	N/A	N/A	

TABLE 1

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

Item 2 - STR Results

CE3LHR	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	
CEJ84A	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	
CGMDUU	PowerPlex® Fusion					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
CJVG7	Identifiler® Plus					
		17,19		14,18	11,11	
2	12,12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6,6	8,9
	14,15					
CN8XRM	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	
CT4Z3V	PowerPlex® Fusion					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
DNMHCK	Investigator® 24plex QS					
	15,3,16,3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6,6	8,9
	14,15	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

DR8WV7	Identifiler® Plus (STRmix)					
		17,19		14,18	11,11	
2	12,12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6,6	8,9
	14,15					
DTX6WU	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	
E8W2J9	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
EBVF8X	PowerPlex® Fusion 5C					
	15.3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15	11				
EHDL8B	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	
EKK42Z	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
ERHTMB	PowerPlex® 21					
	15.3,16.3	17,19		14,18	11,11	11,11
2	12,12	13,14		17,20	8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15					

TABLE 1

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

EWFCPA	Identifiler® Plus					
	-	17,19	-	14,18	11	-
2	12	13,14	-	-	8,11	13,14
	17,18	12,14	30,31	-	X,Y	10,11
	19,20	-	-	-	6	8,9
	14,15	-	-	-	-	-
FE8M2B	PowerPlex® 21					
	15.3,16.3	17,19		14,18	11,11	11,11
2	12,12	13,14		17,20	8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15					
FJ7WFJ	Investigator® 24plex					
	15.3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11				
FPUJ94	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
FQ4NK7	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
G2EKX9	PowerPlex® 21					
	15.3,16.3	17,19		14,18	11,11	11,11
2	12,12	13,14		17,20	8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15					
GDWVKJ	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	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

GGEKA4	PowerPlex® 21						
		15,3,16,3	17,19		14,18	11,11	11,11
	2	12,12	13,14		17,20	8,11	13,14
		17,18	12,14	30,31		X,Y	10,11
		19,20	9,9	5,7		6,6	8,9
		14,15					
GKURFW	Investigator® 24plex						
		15,3,16,3	17,19	11,14	14,18	11	
	2	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27,2,29,2	6	8,9
		14,15	11				
GRQMDV	PowerPlex® Fusion 5C						
		15,3,16,3	17,19	11,14	14,18	11,11	
	2	12,12	13,14	16,16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20	9,9	5,7		6,6	8,9
		14,15	11				
GUEQVL	GlobalFiler™						
		15,3,16,3	17,19	11,14	14,18	11	
	2	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27,2,29,2	6	8,9
		14,15	11			2	
GVANE9	PowerPlex® 21						
		15,3,16,3	17,19		14,18	11,11	11,11
	2	12,12	13,14		17,20	8,11	13,14
		17,18	12,14	30,31		X,Y	10,11
		19,20	9,9	5,7		6,6	8,9
		14,15					
GXGYDX	GlobalFiler™						
		15,3,16,3	17,19	11,14	14,18	11	
	2	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27,2,29,2	6	8,9
		14,15	11			2	
H39XDR	GlobalFiler™						
		15,3,16,3	17,19	11,14	14,18	11	
	2	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27,2,29,2	6	8,9
		14,15	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

H8ZT4K	GlobalFiler™ Express					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
HEJQGR	GlobalFiler™ Direct					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
HJX4LK	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
HQDEN8	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
J7NDAJ	GlobalFiler™ Express					
	15,3,16.3	17,19	11,14	14,18	11	NT
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	NT	NT	27.2,29.2	6	8,9
	14,15	11	NT	NT	2	
JHJ2CR	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
K3K2TA	PowerPlex® 16 HS					
				14,18	11,11	
2	12,12	13,14			8,11	13,14
	17,18		30,31		X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15					

TABLE 1

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

K7329P	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	
K9ALV6	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
KDEHE6	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
KDG8M9	PowerPlex® Fusion 5C					
	15,3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15	11				
KJQ4RH	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
KM62WJ	GlobalFiler™ Express					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
KV2XKM	PowerPlex® Fusion 6C					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27.2,29.2	6	8,9
	14,15	11	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 2 - STR Results

KZBUNW	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
L94P2K	PowerPlex® Fusion 6C					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27.2,29.2	6	8,9
	14,15	11	19	19		
LRG9V3	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
MACTYL	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
MCX34Z	Identifiler® Plus					
		17,19		14,18	11	
2	12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6	8,9
	14,15					
MEQ84F	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	
MKV3MF	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	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

MP6NRZ	Identifiler®					
		17,19		14,18	11	
2		12	13,14		8,11	13,14
		17,18	12,14	30,31	X,Y	10,11
		19,20			6	8,9
		14,15				
MVBMVX	GlobalFiler™					
		15.3,16.3	17,19	11,14	14,18	11,11
2		12,12	13,14	16,16	17,20	8,11
		17,18	12,14	30,31	15,17	X,Y
		19,20			27.2,29.2	6,6
		14,15	11			2
MYA9YE	PowerPlex® Fusion 6C					
		15.3,16.3	17,19	11,14	14,18	11,11
2		12,12	13,14	16,16	17,20	8,11
		17,18	12,14	30,31	15,17	X,Y
		19,20	9,9	5,7	27.2,29.2	6,6
		14,15	11	19	19	
N76TDF	GlobalFiler™					
		15.3,16.3	17,19	11,14	14,18	11
2		12	13,14	16	17,20	8,11
		17,18	12,14	30,31	15,17	X,Y
		19,20			27.2,29.2	6
		14,15	11			2
NG37J2	PowerPlex® 21					
		15.3,16.3	17,19		14,18	11,11
2		12,12	13,14		17,20	8,11
		17,18	12,14	30,31		X,Y
		19,20	9,9	5,7		6,6
		14,15				
NZGBXH	GlobalFiler™					
		15.3,16.3	17,19	11,14	14,18	11,11
2		12,12	13,14	16,16	17,20	8,11
		17,18	12,14	30,31	15,17	X,Y
		19,20			27.2,29.2	6,6
		14,15	11			2
P2QE9L	GlobalFiler™					
		15.3,16.3	17,19	11,14	14,18	11
2		12	13,14	16	17,20	8,11
		17,18	12,14	30,31	15,17	X,Y
		19,20			27.2,29.2	6
		14,15	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

P7L7GH	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
P8HA2Z	Identifiler®					
		17,19		14,18	11,11	
2	12,12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6,6	8,9
	14,15					
PD7WUK	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	
PHX73X	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
PN4X9A	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	
PNNEQX	Identifiler® Plus					
		17,19		14,18	11	
2	12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6	8,9
	14,15					
PYKKBH	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	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

QAY94E	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
QC3UHL	PowerPlex® Fusion 5C					
	15,3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15	11				
QHCPMV	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	
QHT26Z	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	
QHXPXT	Identifiler® Plus (STRmix)					
		17,19		14,18	11,11	
2	12,12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6,6	8,9
	14,15					
QWQNFF	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
QYEPCA	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	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

R47NBH	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	
RBPGFA	PowerPlex® Fusion 5C					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
RQ6KYJ	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	
RU6T8Z	PowerPlex® Fusion 5C					
	15,3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15	11				
T48BGH	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	
T6FLBZ	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15	11				
T8L9LJ	PowerPlex® Fusion 5C					
	15,3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15	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

TAE8AB	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	
TB4AMX	PowerPlex® 21					
	15,3,16.3	17,19		14,18	11,11	11,11
2	12,12	13,14		17,20	8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15					
TGW8K2	Identifiler®					
		17,19		14,18	11	
2	12	13,14			8,11	13,14
	17,18	12,14	30,31			10,11
	19,20				6	8,9
	14,15					
TMZ9HA	GlobalFiler™ Express					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
TRA3KD	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
TRRJ9	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
TZ9WVD	PowerPlex® Fusion 6C					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27.2,29.2	6	8,9
	14,15	11	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 2 - STR Results

U2R2PA	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
U4GUHQ	Investigator® 24plex GO!					
	15,3,16.3	17,19	11,14	14,18	11,11	N/A
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	N/A	N/A	27.2,29.2	6,6	8,9
	14,15	11	N/A	N/A	N/A	
U7LXCE	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
U8YYBU	PowerPlex® Fusion 5C					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
UATNVB	GlobalFiler™ Express					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
UBY7T7	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
UMUG2D	PowerPlex® Fusion 6C					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27.2,29.2	6	8,9
	14,15	11	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 2 - STR Results

UT6D7M	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
VALVFZ	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
VG443B	PowerPlex® Fusion 6C					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27.2,29.2	6	8,9
	14,15	11	19	19		
VKZMQ8	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	
VTFTF7	GlobalFiler™ Express					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
VTZ89Q	Investigator® 24plex GO!					
	15,3,16.3	17,19	11,14	14,18	11,11	N/A
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	N/A	N/A	27.2,29.2	6,6	8,9
	14,15	11	N/A	N/A	N/A	
W927EC	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	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

WFLALE	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	
WLWNJZ	PowerPlex® Fusion 6C					
	15,3,16,3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9,9	5,7	27,2,29,2	6,6	8,9
	14,15	11	19	19		
WM3BUJ	PowerPlex® Fusion					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
WM7XCW	Identifiler® Plus					
	-	17,19	-	14,18	11,11	-
2	12,12	13,14	-	-	8,11	13,14
	17,18	12,14	30,31	-	X,Y	10,11
	19,20	-	-	-	6,6	8,9
	14,15	-	-	-	-	
WWDZPM	PowerPlex® 21					
	15,3,16	17,19		14,18	11,11	11,11
2	12,12	13,14		17,20	8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15					
WZCQ4A	PowerPlex® Fusion 6C					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27,2,29,2	6	8,9
	14,15	11	19	19		
X8PQKB	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	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

X94LFX	PowerPlex® Fusion 6C					
	15,3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9,9	5,7	27.2,29.2	6,6	8,9
	14,15	11	19	19		
XFMREQ	Identifiler® Plus					
		17,19		14,18	11	
2	12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6	8,9
	14,15					
XHTEQA	PowerPlex® Fusion 6C					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27.2,29.2	6	8,9
	14,15	11	19	19		
XJZUYZ	Investigator® 24plex					
	15,3,16.3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11				
XRJHQ	Identifiler® Plus					
	-	17,19	-	14,18	11	-
2	12	13,14	-	-	8,11	13,14
	17,18	12,14	30,31	-	X,Y	10,11
	19,20	-	-	-	6	8,9
	14,15	-	-	-	-	
XU7GAL	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
XVC2XL	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	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

XXKJ6B	GlobalFiler™						
		15,3,16.3	17,19	11,14	14,18	11	
	2	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27,2,29,2	6	8,9
		14,15	11			2	
Y8PJ6J	PowerPlex® Fusion						
		15,3,16.3	17,19	11,14	14,18	11	
	2	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20	9	5,7		6	8,9
		14,15	11				
Y9J8PZ	Investigator® 24plex						
		15,3,16.3	17,19	11,14	14,18	11,11	
	2	12,12	13,14	16,16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27,2,29,2	6,6	8,9
		14,15	11				
YFWFTM	Investigator® 24plex GO						
		15,3,16.3	17,19	11,14	14,18	11,11	N/A
	2	12,12	13,14	16,16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20	N/A	N/A	27,2,29,2	6,6	8,9
		14,15	11	N/A	N/A	N/A	
YL7CXW	GlobalFiler™ Express						
		15,3,16.3	17,19	11,14	14,18	11	
	2	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27,2,29,2	6	8,9
		14,15	11			2	
YKTC4	GlobalFiler™						
		15,3,16.3	17,19	11,14	14,18	11	
	2	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27,2,29,2	6	8,9
		14,15	11			2	
Z7MBEB	GlobalFiler™						
		15,3,16.3	17,19	11,14	14,18	11	
	2	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27,2,29,2	6	8,9
		14,15	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

ZCGFG9	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	
ZKUYTZ	Investigator® 24plex					
	15,3,16,3	17,19	11,14	14,18	11,11	
2	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6,6	8,9
	14,15	11				
ZNRKHG	PowerPlex® Fusion					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
ZUWG2G	PowerPlex® Fusion					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
ZUY8BK	GlobalFiler™ (Genemapper ID-X)					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	
ZV7N6A	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11	
2	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	

TABLE 1

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

Item 3 - STR Results

6NE3HC	NGM SElect					
	[14],15.3,16.3	[16],17,19,[20]	[10],11,14	14,[16],18		
3		[12],13,14	[13],[15],16,16	17,20		[11],13,14
	[14],[15],17,18	12,14,[15.2]	28,30,31	15,17	X,Y	
	19,20,[22]			[18],27.2,29.2	6,8	
	14,15,[18]					
QHT26Z	GlobalFiler™ (LRmixStudio)					
	14,15.3,16.3	16,17,19,20	10,11,14	14,15,16,18	10,11,12	
3	8,12,13	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
TGW8K2	Identifiler®					
		16,17,19,20		14,16,18	10,11,12	
3	8,12	12,13,14,16			8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31			10,11
	19,20,22				6,8	8,9,11
	14,15,16,18					
WLWNJZ	PowerPlex® Fusion 6C (STRmix)					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17	18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11	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 3e - STR Results

2C8TAX	GlobalFiler™ (STRMIX)					
	14,15,15.3,16,16.3	15,16,19,20,Q	10,11,14,Q	14,16,17,18,Q	10,11,12,Q	
3e	8,12,Q	12,13,14,16	13,14,16,Q	17,20,24,Q	8,11,12,Q	11,13,Q
	14,15,17,18,Q	12,14,15.2,Q	27,28,31,Q	15,16,17,Q	X,Y	10,11,Q
	19,20,21,22,Q			18,23.2,Q	6,8,Q	8,11,Q
	15,16,18,Q	11			2	
2G68WM	Identifiler® Plus					
	-	16,17,19,20	-	14,16,18	10,11,12	-
3e	8,12	12,13,14,16	-	-	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	-	X,Y	10,11
	19,20,22	-	-	-	6,8	8,9,11
	14,15,16,18	-	-	-	-	
2LG6HN	PowerPlex® 21					
	14,15.3,16,16.3	16,17,19,20		14,16,18	10,11,12	11,13,18
3e	8,12	12,13,14,16		17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31		X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18					
2LJPCJ	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
2XD4FM	Identifiler® Plus					
		16,17,19,20		14,16,18	10,11,12	
3e	8,12	12,13,14,16			8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31		X,Y	10,11
	19,20,22				6,8	8,9,11
	14,15,16,18					
3BW9ZN	Identifiler®					
		16,17,19,20		14,16,18	10,11,12	
3e	8,12	12,13,14,16			8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31		X,Y	10,11
	19,20,22				6,8	8,9,11
	14,15,16,18					
3HR9BA	PowerPlex® Fusion 5C					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				

TABLE 1

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

Item 3e - STR Results

3J86P8	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
3NFV7F	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
3R2FBJ	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
3U9VKB	Investigator® 24plex					
	(14),15.3,(16),16.3	(16),17,19,(20)	(10),11,14	14,(16),18	(10),11,(12)	
3e	(8),12	(12),13,14,(16)	(13,14),16	17,20,(24)	8,11,(12)	(11),13,14
	(14,15),17,18	12,14,(15.2)	(28),30,31	15,17	X,Y	10,11
	19,20,(22)			(18,23.2),27.2,29.2	6,(8)	8,9,(11)
	14,15,(16),18	11				
3WEFAW	Investigator® 24plex					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11				
43FWJG	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
4BNNLJ	GlobalFiler™					
	14,[15.3],16,[16.3]	16,[17,19],20	10,[11],14	[14],16,18	10,[11],12	
3e	8,12	12,[13,14],16	13,14,[16]	17,[20],24	[8],11,12	11,13,[14]
	14,15,[17,18]	[12],14,15.2	28,[30,31]	15,17	X,[Y]	[10],11
	[19],20,22			18,23.2,[27.2,29.2]	[6],8	8,[9],11
	[14,15],16,18	11			2	

TABLE 1

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

Item 3e - STR Results

4CHC7Z	GlobalFiler™					
	14,[15.3],16,[16.3]	16,[17,19],20	10,[11],14	[14],16,18	10,[11],12	
3e	8,12	12,[13,14],16	13,14,[16]	17,[20],24	[8],11,12	11,13,[14]
	14,15,[17,18]	[12],14,15.2	28,[30,31]	15,17	X,[Y]	[10],11
	[19],20,22			18,23.2,[27.2,29.2]	[6],8	8,[9],11
	[14,15],16,18	[11]			[2]	
4FE37K	PowerPlex® 17 Fast					
	14,15.3,16.3	16,17,19,20	10,11,14	14,16,18		
3e		12,13,14,16	13,14,16	17,20,24		11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	
	19,20,22			18,23.2,27.2,29.2	6,8	
	14,15,16,18					
4X2E4K	Identifiler® Plus					
	-	16,17,19,20	-	14,16,18	10,11,12	-
3e	8,12	12,13,14,16	-	-	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	-	X,Y	10,11
	19,20,22	-	-	-	6,8	8,9,11
	14,15,16,18	-	-	-	-	
6CJY77	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
6DWZ67	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
6L49UZ	GlobalFiler™ (STRmix)					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,16,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
6MYFPJ	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				

TABLE 1

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

Item 3e - STR Results

6RRF8L	Identifiler® Plus					
		16,17,19,20		14,16,18	10,11,12	
3e	8,12	12,13,14,16			8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31		X,Y	10,11
	19,20,22				6,8	8,9,11
	14,15,16,18					
6XHR8N	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
6XXCQL	Identifiler® Plus					
		16,17,19,20		14,16,18	10,11,12	
3e	8,12	12,13,14,16			8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31		X,Y	10,11
	19,20,22				6,8	8,9,11
	14,15,16,18					
76DFQD	PowerPlex® 21 (STRmix)					
	14,15.3,16,16.3	16,17,19,20		14,16,18	10,11,12	11,13,18
3e	8,12	12,13,14,16		17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31		X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18					
7AQXTA	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
7BZ39J	Identifiler® Plus					
		16,17,19,20		14,16,18	10,11,12	
3e	8,12	12,13,14,16			8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31		X,Y	10,11
	19,20,22				6,8	8,9,11
	14,15,16,18					
7GNMCZ	PowerPlex® Fusion 6C					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17	18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11	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 3e - STR Results

7MFUU9	PowerPlex® ESI Fast					
	14,16,(16.3)	16,(19),20	10,(11),14	(14),16,18		
3e		12,(13,14),16	13,14,(16)	17,(24)		11,13,(14)
	14,15,(17,18)	(12),14,15.2	28,28,(30,31)	15,17	X,X,(X,Y)	
	(19),20,22				(6),8,8	
	(14,15),16,18					
7QE9HX	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
7RLPD9	GlobalFiler™					
	14,[15.3],16,[16.3]	16,[17,19],20	10,[11],14	14,16,18	10,11,12	
3e	8,12	12,[13,14],16	13,14,16	17,[20],24	8,11,12	11,13,[14]
	14,15,[17,18]	[12],14,15.2	28,[30,31]	15,17	X,[Y]	[10],11
	19,20,22			18,23.2,[27.2,29.2]	6,8	8,[9],11
	[14,15],16,18	[11]			[2]	
7XVLHH	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
7YABJA	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
84F2NZ	PowerPlex® Fusion 6C					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	11
	19,20,22	2.2,9,12	5,8,17	18,23.2,27.2,29.2	6,8	8,11
	14,15,16,18	11	19	19		
89UCN3	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	

TABLE 1

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

Item 3e - STR Results

8AK3MA	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
8L4E6D	GlobalFiler™ (TrueAllele)					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
93YLBB	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
3e	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
96B7HZ	PowerPlex® Fusion 6C					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	11
	19,20,22	2.2,9,12	5,7,8,17	18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11	19	19		
98BFNV	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
9DFB9V	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
9TEZMF	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	

TABLE 1

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

Item 3e - STR Results

A2LELM	Investigator® 24plex					
	14,[15.3],16,[16.3]	16,[17,19],20	10,[11],14	[14],16,18	10,11,12	
3e	8,12	12,[13,14],16	13,14,[16]	17,[20],24	[8],11,12	11,13,[14]
	14,15,[17,18]	[12],14,15.2	28,28,[30,31]	15,17	X,X,[Y]	[10],11,11
	[19],20,22			18,23.2,[27.2,29.2]	[6],8,8	8,[9],11
	[14,15],16,18	[11]				
AFLYLZ	PowerPlex® Fusion 6C					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17	18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11	19	19		
AHTB6M	Investigator® 24plex QS					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11				
APQ7ZY	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
AWMZYX	PowerPlex® Fusion 6C					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17	18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11	19	19		
B3TWHX	PowerPlex® Fusion 6C					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17	18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11	19	19		
BDP3AB	GlobalFiler™					
	14,[15.3],16,[16.3]	16,[17],19,20	10,[11],14	[14],16,18	10,11,12	
3e	[8],12	12,[13],[14],16	13,[14],16	17,[20],[24]	[8],11,[12]	11,13,[14]
	14,15,[17],[18]	[12],14,15.2	28,[30],[31]	15,17	X,[Y]	[10],11
	[19],20,22			18,23.2,[27.2],[29.2]	[6],8	8,[9],[11]
	[14],[15],16,18	11			2	

TABLE 1

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

Item 3e - STR Results

BHNNCR	GlobalFiler™ (STRmix)					
	14,15.3,16,16.3	15,16,17,19,20,Q	10,11,13,14	14,15,16,17,18,Q	9,10,11,12,Q	
3e	8,11,12,Q	11,12,13,14,15,16	12,13,14,16	16,17,20,23,24,Q	8,11,12	10,11,12,13,14,Q
	14,15,17,18	12,13,14,14.2,15.2, Q	28,30,31	14,15,16,17,18,Q	X,Y	10,11,Q
	19,20,21,22,Q			18,23.2,27.2,29.2	6,7,8,Q	8,9,11,Q
	14,15,16,17,18,Q	11			2	
BL97KJ	GlobalFiler™					
	14,16,[16.3]	16,[17],[19],20	10,[11],14	[14],16,18	10,[11],12	
3e	8,12	12,[13],[14],16	13,14,[16]	17,24	[8],11,12	11,13,[14]
	14,15,[17],[18]	14,15.2	28,[30],[31]	15,17	X	[10],11
	[19],20,22			18,23.2,[27.2]	[6],8	8,11
	[15],16,18	[11]			[2]	
BUG8QX	Investigator® 24plex					
	14,15.3,16,16.3	16,[17],19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11				
C39FZA	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
C3NWYA	Identifiler®, Investigator® 24plex QS					
	14,[15.3],16,[16.3]	16,[19],20	10,[11],14	[14],16,18	10,11,12	N/A
3e	8,12	12,[13],[14],16	13,14,[16]	17,[20],24	[18],11,12	11,13,[14]
	14,15,[17],[18]	[12],14,15.2	28,[30],[31]	15,17	X,[Y]	[10],11
	19,20,22	N/A	N/A	18,23.2,[27.2]	[6],8	8,[9],11
	[14],[15],16,18	11	N/A	N/A	N/A	
CE3LHR	GlobalFiler™ (STRmix)					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,16,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	

TABLE 1

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

Item 3e - STR Results

CEJ84A	GlobalFiler™					
	14,[15.3],16,[16.3]	16,[17,19],20	10,[11],14	[14],16,18	10,[11],12	
3e	8,12	12,[13,14],16	13,14,[16]	17,[20],24	[8],11,12	11,13,[14]
	14,15,[17,18]	[12],14,15.2	28,[30,31]	15,17	X,[Y]	[10],11
	[19],20,22			18,23.2,[27.2,29.2]	[6],8	8,[9],11
	[14,15],16,18	11			2	
CGMDUU	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
CJVG7	Identifiler® Plus					
		16,20		16,18	10,12	
3e	8,12	12,16			11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22				8,8	8,11
	16,18					
CN8XRM	GlobalFiler™					
	14,[15.3],16,[16.3]	16,[17,19],20	10,[11],14	[14],16,18	10,[11],12	
3e	8,12	12,[13,14],16	13,14,[16]	17,[20],24	[8],11,12	11,13,[14]
	14,15,[17,18]	[12],14,15.2	28,[30,31]	15,17	X,[Y]	[10],11
	[19],20,22			18,23.2,[27.2,29.2]	[6],8	8,[9],11
	[14,15],16,18	[11]			[2]	
CT4Z3V	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
DNMHCK	Investigator® 24plex QS					
	14,16,16.3	16,[17,19],20	10,[11],14	[14],16,18	10,11,12	
3e	8,12	12,[13,14],16	13,14,16	17,[20],24	8,11,12	11,13,[14]
	14,15,[17,18]	[12],14,15.2	28,28,[30,31]	15,17	X,X,[Y]	[10],11,11
	19,20,22			18,23.2,[27.2,29.2]	[6],8,8	8,[9],11
	[14,15],16,18	11				
DR8WV7	Identifiler® Plus (STRmix)					
		16,17,19,20		14,16,18	10,11,12	
3e	8,12	12,13,14,16			8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31		X,Y	10,11
	19,20,22				6,8	8,9,11
	14,15,16,18					

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 3e - STR Results

DTX6WU	GlobalFiler™						
		14,[15.3],16,[16.3]	16,[17,19],20	10,[11],14	[14],16,18	10,11,12	
	3e	8,12	12,[13,14],16	13,14,16	17,[20],24	[8],11,12	11,13,[14]
		14,15,17,18	12,14,15.2	28,[30,31]	15,17	X,Y	10,11
		[19],20,22			18,23.2,[27.2,29.2]	6,8	8,[9],11
	[14,15],16,18	[11]			[2]		
E8W2J9	GlobalFiler™						
		14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
	3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
		14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
		19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2		
EBVF8X	PowerPlex® Fusion 5C						
		14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
	3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
		14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
		19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11					
EHDL8B	GlobalFiler™						
		14,'15.3',16,'16.3'	'16',(17),'19',20'	[10],[11],14	[(14)],16,18	10,11,12	
	3e	[8],12	12,'13','14',16	13,14,'16'	17,[20],[24']	[8],11,12	['11'],13,[(14)]
		14,15,['17],[18]	[(12)],14,['15.2']	28,28,[30],[31']	15,17	X,[Y]	['10'],11
		'19',20,22			18,23.2,['27.2],[29.2]	[6],8	8,(9),'11'
	[(14)],['15],16,18	(11)			'2'		
EKK4Z2	GlobalFiler™						
		14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
	3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
		14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
		19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2		
ERHTMB	PowerPlex® 21						
		14,[15.3],16,[16.3]	16,[17],[19],20		[14],16,18	10,[11],12	11,13,18
	3e	8,12	12,[13],[14],16		17,[20],24	[8],11,12	11,13,[14]
		14,15,[17],[18]	[12],14,15.2	28,[30],[31]		X,[Y]	[10],11
		[19],20,22	2.2,[9],12	[5],[7],8,17		[6],8	8,[9],11
	[14],[15],16,18						
EWFCPA	Identifiler® Plus						
		-	16,17,19,20	-	14,16,18	10,11,12	-
	3e	8,12	12,13,14,16	-	-	8,11,12	11,13,14
		14,15,17,18	12,14,15.2	28,30,31	-	X,Y	10,11
		19,20,22	-	-	-	6,8	8,9,11
	14,15,16,18	-	-	-	-		

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 3e - STR Results

FE8M2B	PowerPlex® 21						
		14,15.3,16	16,17,19,20		14,16,18	10,11,12	11,13,18
	3e	8,12	12,13,14,16		17,20,24	8,11,12	11,13
		14,15,17,18	12,14,15.2	28,30,31		X,Y	10,11
		19,20,22	2.2,9,12	5,7,8,17		6,8	8,11
	14,15,16,18						
FJ7WFJ	Investigator® 24plex						
		14,[15.3],16,[16.3]	16,[17],[19],20	10,[11],14	[14],16,18	10,[11],12	
	3e	8,12	12,[13],[14],16	13,14,[16]	17,[20],24	[8],11,12	11,13,[14]
		14,15,[17],[18]	[12],14,15.2	28,28,[30],[31]	15,17	X,X,[Y]	[10],11,11
		[19],20,22			18,23.2,[27.2],[29.2]	[6],8,8	8,[9],11
	[14],16,18	[11]					
FPUJ94	PowerPlex® Fusion						
		14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
	3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
		14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
		19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,16,18	11					
FQ4NK7	GlobalFiler™						
		14,[15.3],16,[16.3]	16,[17],[19],20	10,[11],14	[14],16,18	10,[11],12	
	3e	8,12	12,[13],[14],16	13,14,[16]	17,[20],24	[8],11,12	11,13,[14]
		14,15,[17],[18]	[12],14,15.2	28,[30],[31]	15,17	X,[Y]	11
		[19],20,22			18,23.2,[27.2],[29.2]	[6],8	8,[9],11
	[14],[15],16,18	11			2		
G2EKX9	PowerPlex® 21						
		14,15.3,16,16.3	16,17,19,20		14,16,18	10,11,12	11,13,18
	3e	8,12	12,13,14,16		17,20,24	8,11,12	11,13,14
		14,15,17,18	12,14,15.2	28,30,31		X,Y	10,11
		19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18						
GDWVKJ	PowerPlex® Fusion						
		14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
	3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
		14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
		19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11					
GGEKA4	PowerPlex® 21						
		14,15.3,16,16.3	16,17,19,20		14,16,18	10,11,12	11,13,18
	3e	8,12	12,13,14,16		17,20,24	8,11,12	11,13,14
		14,15,17,18	12,14,15.2	28,30,31		X,Y	10,11
		19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18						

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 3e - STR Results

GKURFW	Investigator® 24plex						
		14,16	16,[17],20	10,[11],14	[14],16,18	10,[11],12	
	3e	8,12	12,[14],16	13,14,[16]	17,[20],24	11,12	11,13
		14,15,[18]	[12],14,15.2	28,[31]	15,17	X	11
		20,22			18,23.2,[27.2]	[6],8	8,[9],11
	16,18	[11]					
GRQMDV	PowerPlex® Fusion 5C						
		14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
	3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
		14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
		19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11					
GUEQVL	GlobalFiler™ (STRmix)						
		14,15.3,16,16.3	16,17,19,20	10,11,14,Q	14,15,16,17,18,Q	10,11,12,Q	
	3e	8,12,Q	12,13,14,16	12,13,14,16,Q	16,17,20,23,24,Q	8,11,12,Q	11,13,Q
		14,15,17,18	12,14,15.2,Q	27,28,31,Q	15,16,17,Q	X,Y	10,11,Q
		19,20,22,Q			18,23.2,27.2,29.2,Q	6,8,Q	8,11,Q
	15,16,18,Q				2		
GVANE9	PowerPlex® 21						
		14,[15.3],16,[16.3]	16,[17],[19],20		[14],16,18	10,[11],12	[11],13,18
	3e	8,12	12,[13],[14],16		17,[20],24	[8],11,12	11,13,[14]
		14,15,[17],[18]	[12],14,15.2	28,[30],[31]		X,Y	[10],11
		[19],20,22	2.2,[9],12	[5],[7],8,17		[6],8	8,[9],11
	[14],[15],16,18						
GXGYDX	GlobalFiler™						
		14,[15.3],16,[16.3]	16,[17,19],20	10,11,14	[14],16,18	10,11,12	
	3e	8,12	12,[13,14],16	13,14,16	17,20,24	8,11,12	11,13,[14]
		14,15,[17,18]	12,14,15.2	28,[30,31]	15,17	X,[Y]	[10],11
		19,20,22			18,23.2,[27.2,29.2]	[6],8	8,[9],11
	[14,15],16,18	[11]			[2]		
H39XDR	GlobalFiler™						
		14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
	3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
		14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
		19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2		
H8ZT4K	GlobalFiler™						
		14,[15.3],16,[16.3]	16,[17],[19],20	10,[11],14	[14],16,18	10,11,12	
	3e	8,12	12,[13],[14],16	13,14,[16]	17,[20],24	[8],11,12	11,13,[14]
		14,15,[17],[18]	[12],14,15.2	28,[30],[31]	15,17	X,[Y]	[10],11
		[19],20,22			18,23.2,[27.2],[29.2]	[6],8	8,[9],11
	[14],[15],16,18	[11]			[2]		

TABLE 1

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

Item 3e - STR Results

HEJQGR	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
HJX4LK	GlobalFiler™ (STRmix)					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
HQDEN8	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
J7NDAJ	GlobalFiler™					
	14,[15.3],16,[16.3]	16,[17,19],20	10,[11],14	[14],16,18	10,11,12	NT
3e	8,12	12,[13,14],16	13,14,16	17,[20],24	[8],11,12	11,13,[14]
	14,15,[17,18]	[12],14,15.2	28,[30,31]	15,17	X,[Y]	[10],11
	[19],20,22	NT	NT	18,23.2,[27.2,29.2]	[6],8	8,[9],11
	[14,15],16,18	11	NT	NT	2	
K3K2TA	PowerPlex® 16 HS					
				14,16,18	10,11,12	
3e	8,12	12,13,14,16			8,11,12	11,13,14
	14,15,17,18		28,30,31		X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18					
K7329P	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
K9ALV6	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				

TABLE 1

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

Item 3e - STR Results

KDEHE6	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,11
	14,15,16,18	11				
KDG8M9	PowerPlex® Fusion 5C					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
KJQ4RH	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
KM62WJ	GlobalFiler™					
	14,[15.3],16,[16.3]	16,[17,19],20	10,[11],14	[14],16,18	10,[11],12	
3e	8,12	12,[13,14],16	13,14,[16]	17,[20],24	[8],11,12	11,13,[14]
	14,15,[17,18]	[12],14,15.2	28,[30,31]	15,17	X,[Y]	[10],11
	[19],20,22			18,23.2,[27.2,29.2]	[6],8	8,[9],11
	[14,15],16,18	[11]			[2]	
KV2XKM	PowerPlex® Fusion 6C					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17	18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11	19	19		
KZBUNW	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
L94P2K	PowerPlex® Fusion 6C					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17	18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11	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 3e - STR Results

LRG9V3	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
MACTYL	GlobalFiler™					
	14,[15.3],16,[16.3]	16,[19],20	10,[11],14	[14],16,18	10,11,12	
3e	8,12	12,[13],[14],16	13,14,[16]	17,[20],24	[8],11,12	11,13,[14]
	14,15,[17],[18]	[12],14,15.2	28,[30],[31]	15,17	X,[Y]	[10],11
	[19],20,22			18,23.2,[27.2],[29.2]	[6],8	8,[9],11
	[14],[15],16,18	11			2	
MCX34Z	Identifiler® Plus					
		16,17,19,20		14,16,18	10,11,12	
3e	8,12	12,13,14,16			8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31		X,Y	10,11
	19,20,22				6,8	8,9,11
	14,15,16,18					
MEQ84F	GlobalFiler™ (STRMIX)					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
MKV3MF	GlobalFiler™ (STRmix)					
	14,15.3,16,16.3	15,16,17,19,20,Q	10,11,14,Q	14,15,16,17,18,Q	10,11,12,Q	
3e	8,11,12,Q	12,13,14,16	12,13,14,16,Q	16,17,20,23,24,Q	8,11,12,Q	11,13,14,Q
	14,15,17,18	12,14,15.2,Q	28,30,31	15,16,17,Q	X,Y	10,11,Q
	19,20,22,Q			18,23.2,27.2,29.2,Q	6,8,Q	8,11,Q
	14,15,16,18,Q	11			2	
MP6NRZ	Identifiler®					
		16,17,19,20		14,16,18	10,11,12	
3e	[8],12	12,13,14,16			8,11,12	11,13,[14]
	14,15,17,18	12,14,15.2	28,30,31		X,[Y]	[10],11
	19,20,22				[6],8	8,9,11
	[14],[15],16,18					
MVBMVX	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	

TABLE 1

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

Item 3e - STR Results

MYA9YE	PowerPlex® Fusion 6C					
	14,[15.3],16,[16.3]	16,[17],[19],20	10,[11],14	[14],16,18	10,[11],[11],12	
3e	8,12,[12],[12]	12,[13],[14],16	13,14,[16]	17,[20],24	[8],[11],11,12	11,13,[14]
	14,15,[17],[18]	[12],14,15.2	28,28,[30],[31]	15,17	X,X,[X],[Y]	[10],11,11
	[19],20,22	2.2,[9],12	[5],[7],8,17	18,23.2,[27.2],[29.2]	[6],8,8	8,[9],11
	[14],[15],16,18	[11]	[19]	[19]		
N76TDF	GlobalFiler™ (STRmix)					
	14,15.3,16,16.3	16,17,19,20	10,11,14,Q	14,16,17,18,Q	10,11,12	
3e	8,11,12,Q	12,13,14,16	13,14,15,16,Q	16,17,20,24,Q	8,11,12	11,13,14,Q
	14,15,17,18	12,13,14,15.2,Q	28,29,30,31	15,16,17,Q	X,Y	10,11,Q
	19,20,22,Q			18,23.2,27.2,29.2	6,8,Q	8,9,11,Q
	14,15,16,18	11			2	
NG37J2	PowerPlex® 23					
	14,16	16,20		16,18	10,12	13,18
3e	8,12	12,16		17,24	11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
NZGBXH	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
P2QE9L	Identifiler®, GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
P7L7GH	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
P8HA2Z	Identifiler®					
		16,17,19,20		14,16,18	10,11,12	
3e	8,12	12,13,14,16			8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31		X,Y	10,11
	19,20,22				6,8	8,9,11
	14,15,16,18					

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 3e - STR Results

PD7WUK	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
PHX73X	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,11
	14,15,16,18	11			2	
PN4X9A	GlobalFiler™					
	[(14)],15.3,16.3	[(16)],17,19,[(20)]	[(10)],11,14	'14',[(16)],'18'	11,11,[(12)]	
3e	[(8)],12,12	[(12)],13,14,['16']	[(13)],[(14)],16,16	'17','20',[(24)]	8,11,[(12)]	(11),'13',(14)
	[(14)],[(15)],17,18	12,14,[(15.2)]	[(28)],30,31	'15',17	X,Y	['10'],11
	19,20,[(22)]			[(18)],[(23.2)],27.2,29.2	6,6,[(8)]	'8','9'
	14,'15',(16)	'11'			2	
PNNEQX	Identifiler® Plus					
		16,17,19,20		14,16,18	10,11,12	
3e	8,12	12,13,14,16			8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31		X,Y	10,11
	19,20,22				6,8	8,9,11
	14,15,16,18					
PYKKB	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
QAY94E	GlobalFiler™ (STRMIX)					
	14,15.3,16,16.3	15,16,17,19,20,Q	10,14,Q	14,15,16,17,18,Q	9,10,11,12,Q	
3e	8,11,12,Q	12,13,14,16	12,13,14,16,Q	16,17,20,23,24,Q	8,10,11,12,Q	10,11,12,13,Q
	14,15,17,18	12,14,15.2,Q	28,30,31	14,15,16,17,Q	X,Y	10,11,Q
	19,20,21,22,Q			18,23.2,27.2,29.2	6,8,Q	8,9,11,Q
	14,15,16,17,18,Q				2	

TABLE 1

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

Item 3e - STR Results

QC3UHL	PowerPlex® Fusion 5C					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
QHCPMV	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
QHXPXT	Identifiler® Plus (STRmix)					
		16,17,19,20		14,16,18	10,11,12	
3e	8,12	12,13,14,16			8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31		X,Y	10,11
	19,20,22				6,8	8,9,11
	14,15,16,18					
QWQNFF	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
QYEPCA	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
R47NBH	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
RBPGFA	PowerPlex® Fusion 5C					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				

TABLE 1

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

Item 3e - STR Results

RQ6KYJ	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
RU6T8Z	PowerPlex® Fusion 5C					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
T48BGH	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
T6FLBZ	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	11,11
	20,22	2.2,9,12	5,8,17		6,8	8,9,11
	14,16,18	11				
T8L9LJ	PowerPlex® Fusion 5C					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
TAE8AB	GlobalFiler™ (STRmix)					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
TB4AMX	PowerPlex® 21					
	14,16,16.3	16,17,19,20		14,16,18	10,11,12	11,13,18
3e	8,12	12,13,14,16		17,20,24	8,11,12	11,13,14
	14,15,17,18	14,15.2	28,30,31		X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,11
	14,15,16,18					

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 3e - STR Results

TMZ9HA	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
TRA3KD	PowerPlex® Fusion					
	14,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
TRRJT9	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
TZ9WVD	PowerPlex® Fusion 6C					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	11
	19,20,22	2.2,9,12	5,7,8,17	18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11	19	19		
U2R2PA	GlobalFiler™ (STRmix)					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
U4GUHQ	Identifiler®, Investigator® 24plex QS					
	14,16,[16.3]	16,[17],[19],20	10,[11],14	[14],16,18	10,11,12	N/A
3e	8,12	12,[13],[14],16	13,14,[16]	17,[20],24	[8],11,12	11,13,[14]
	14,15,[17],[18]	[12],14,15.2	28,[30],[31]	15,17	X,[Y]	[10],11
	[19],20,22	N/A	N/A	18,23.2,[27.2],[29.2]	6,8	8,[9],11
	[14],[15],16,18	11	N/A	N/A	N/A	
U7LXCE	GlobalFiler™					
	14,[15.3],16,[16.3]	16,17,19,20	10,[11],14	[14],16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,[16]	17,[20],24	[8],11,12	11,13,[14]
	14,15,[17],[18]	[12],14,15.2	28,[30],[31]	15,17	X,[Y]	[10],11
	[19],20,22			18,23.2,[27.2],[29.2]	6,8	8,[9],11
	[14],[15],16,18	11			2	

TABLE 1

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

Item 3e - STR Results

U8YYBU	PowerPlex® Fusion 5C					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
UATNVB	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
UBY7T7	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
UMUG2D	PowerPlex® Fusion 6C					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17	18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11	19	19		
UT6D7M	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
VALVFZ	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
VG443B	PowerPlex® Fusion 6C					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17	18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11	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 3e - STR Results

VKZMQ8	GlobalFiler™ (STRmix)					
		14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12
	3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12
		14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y
		19,20,22			18,23.2,27.2,29.2	6,8
	14,15,16,18	11			2	
VTFTF7	GlobalFiler™					
		14,[15.3],16,[16.3]	16,[17,19],20	10,[11],14	[14],16,18	10,[11],12
	3e	8,12	12,[13,14],16	13,14,[16]	17,[20],24	[8],11,12
		14,15,[17,18]	[12],14,15.2	28,[30,31]	15,17	X,[Y]
		[19],20,22			18,23.2,[27.2,29.2]	[6],8
	[14,15],16,18	[11]			[2]	
VTZ89Q	Identifiler®, Investigator® 24plex QS					
		14,[15.3],16,[16.3]	16,[17],[19],20	10,[11],14	[14],16,18	10,11,12
	3e	[8],12	12,[13],[14],16	13,14,[16]	17,[20],24	[8],11,12
		14,15,[17],[18]	[12],14,15.2	28,[30],[31]	15,17	X,[Y]
		[19],20,22	N/A	N/A	18,23.2,[27.2],[29.2]	[6],8
	[14],[15],16,18	11	N/A	N/A	N/A	
WM3BUJ	PowerPlex® Fusion					
		14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12
	3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12
		14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y
		19,20,22	2.2,9,12	5,7,8,17		6,8
	14,15,16,18	11			8,9,11	
WM7XCW	Identifiler® Plus					
		-	16,17,19,20	-	14,16,18	10,11,12
	3e	8,12	12,13,14,16	-	-	8,11,12
		14,15,17,18	12,14,15.2	28,30,31	-	X,Y
		19,20,22	-	-	-	6,8
	14,15,16,18	-	-	-	8,9,11	
WWDZPM	PowerPlex® 21					
		14,16,16.3	16,17,19,20		14,16,18	10,11,12
	3e	8,12	12,13,14,16		17,20,24	8,11,12
		14,15,17,18	12,14,15.2	28,30,31		X,Y
		19,20,22	2.2,9,12	5,7,8,17		6,8
	14,15,16,18				8,9,11	
WZCQ4A	PowerPlex® Fusion 6C					
		14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12
	3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12
		14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y
		19,20,22	2.2,9,12	5,7,8,17	18,23.2,27.2,29.2	6,8
	14,15,16,18	11	19	19	8,9,11	

TABLE 1

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

Item 3e - STR Results

X8PQKB	GlobalFiler™						
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12		
	3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y		10,11
	19,20,22			18,23.2,27.2,29.2	6,8		8,9,11
	14,15,16,18	11			2		
X94LFX	PowerPlex® Fusion 6C (STRmix)						
	14,16	16,[17],20	10,[11],14	[14],16,18	10,[11],12		
	3e	8,12	12,[13],[14],16	13,14,[16]	17,[20],24	[8],11,12	11,13,[14]
	14,15,[17],[18]	[12],14,15.2	28,[30],[31]	15,17	X,[Y]		11
	[19],20,22	2.2,[9],12	[5],8,17	18,23.2,[27.2],[29.2]	[6],8		8,11
	[14],16,18	11	19				
XFMREQ	Identifiler® Plus						
		16,17,19,20		14,16,18	10,11,12		
	3e	8,12	12,13,14,16		8,11,12		11,13,14
	14,15,17,18	12,14,15.2	28,30,31		X,Y		10,11
	19,20,22				6,8		8,9,11
	14,15,16,18						
XHTEQA	PowerPlex® Fusion 6C						
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12		
	3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y		10,11
	19,20,22	2.2,9,12	5,7,8,17	18,23.2,27.2,29.2	6,8		8,9,11
	14,15,16,18	11	19	19			
XIZUYZ	Investigator® 24plex						
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12		
	3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y		10,11
	19,20,22			18,23.2,27.2,29.2	6,8		8,9,11
	14,15,16,18	11					
XRXJHQ	Identifiler® Plus						
	-	16,17,19,20	-	14,16,18	10,11,12	-	
	3e	8,12	12,13,14,16	-	8,11,12		11,13,14
	14,15,17,18	12,14,15.2	28,30,31	-	X,Y		10,11
	19,20,22	-	-	-	6,8		8,9,11
	14,15,16,18	-	-	-	-		
XU7GAL	PowerPlex® Fusion						
	14,15.3,16,16.3	16,19,20	10,11,14	14,16,18	10,11,12		
	3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y		11
	20,22	2.2,9,12	5,7,8,17		6,8		8,9,11
	14,16,18	11					

TABLE 1

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

Item 3e - STR Results

XVC2XL	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
	3e 8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
XXKJ6B	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
	3e 8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11		2		
Y8PJ6J	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
	3e 8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
Y9J8PZ	Investigator® 24plex					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
	3e 8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11				
YFWFTM	Identifiler®, Investigator® 24plex QS					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	N/A
	3e 8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	N/A	N/A	18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11	N/A	N/A	N/A	
YL7CXW	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
	3e 8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11		2		
YTKTC4	GlobalFiler™ (STRmix)					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
	3e 8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11		2		

TABLE 1

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

Item 3e - STR Results

Z7MBEB	GlobalFiler™					
	14,[15.3],16,[16.3]	16,[17,19],20	10,[11],14	[14],16,18	10,[11],12	
3e	8,12	12,[13,14],16	13,14,[16]	17,[20],24	[8],11,12	11,13,[14]
	14,15,[17,18]	[12],14,15.2	28,[30,31]	15,17	X,[Y]	[10],11
	[19],20,22			18,23.2,[27.2,29.2]	[6],8	8,[9],11
	[14,15],16,18	[11]			[2]	
ZCGFG9	GlobalFiler™					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11			2	
ZKUYTZ	Investigator® 24plex					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22			18,23.2,27.2,29.2	6,8	8,9,11
	14,15,16,18	11				
ZNRKHG	PowerPlex® Fusion					
	14,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
ZUWG2G	PowerPlex® Fusion					
	14,15.3,16,16.3	16,17,19,20	10,11,14	14,16,18	10,11,12	
3e	8,12	12,13,14,16	13,14,16	17,20,24	8,11,12	11,13,14
	14,15,17,18	12,14,15.2	28,30,31	15,17	X,Y	10,11
	19,20,22	2.2,9,12	5,7,8,17		6,8	8,9,11
	14,15,16,18	11				
ZUY8BK	PowerPlex® Fusion, GlobalFiler™ (Genemapper ID-X)					
	14,16	16,20	10,14	16,18	10,11,12	
3e	8,12	12,16	13,14,16	17,24	11,12	11,13
	14,15,17	14,15.2	28	15,17	X,Y	11
	20,22	2.2,9,12	5,7,8,17	18,23.2	8	8,11
	16,18				2	
ZV7N6A	GlobalFiler™					
	14,[15.3],16,[16.3]	16,[17,19],20	10,[11],14	[14],16,18	10,[11],12	
3e	8,12	12,[13,14],16	13,14,[16]	17,[20],24	[8],11,12	11,13,[14]
	14,15,[17,18]	[12],14,15.2	28,[30,31]	15,17	X,[Y]	[10],11
	[19],20,22			18,23.2,[27.2,29.2]	[6],8	8,[9],11
	[14,15],16,18	11			2	

TABLE 1

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

Item 3sp - STR Results

2C8TAX	GlobalFiler™ (STRMIX)					
	15.3,16.3	17,19	11,14	14,17,18	11,11	
3sp	12,12	13,14	15,16	17,20	8,11	13,14
	16,17,18	12,14	30,31	15,16,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	
2G68WM	Identifiler® Plus					
	-	17,19	-	14,18	11	-
3sp	12	13,14	-	-	8,11	13,14
	17,18	12,14	30,31	-	X,Y	10,11
	19,20	-	-	-	6	8,9
	14,15	-	-	-	-	
2LG6HN	PowerPlex® 21					
	15.3,16.3	17,19		14,18	11,11	11,11
3sp	12,12	13,14		17,20	8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15					
2LJPCJ	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
2XD4FM	Identifiler® Plus					
		17,19		14,18	11	
3sp	12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6	8,9
	14,15					
3BW9ZN	Identifiler®					
		17,19		14,18	11,11	
3sp	12,12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6,6	8,9
	14,15					
3HR9BA	PowerPlex® Fusion 5C					
	15.3,16.3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15	11				

TABLE 1

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

Item 3sp - STR Results

3J86P8	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	
3NFV7F	PowerPlex® Fusion					
	15,3,16,3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
3R2FBJ	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6,6	8,9
	14,15	11			2	
3U9VKB	Investigator® 24plex					
	15,3,16,3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11				
3WEFAW	Investigator® 24plex					
	15,3,16,3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6,6	8,9
	14,15	11				
43FWJG	PowerPlex® Fusion					
	15,3,16,3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
4BNNLJ	GlobalFiler™					
	[14],15,3,16,3	17,19,[20]	11,14	14,[16],18	11,[12]	
3sp	12	13,14,[16]	[13,14],16	17,20,[24]	8,11,[12]	13,14
	[14,15],17,18	12,14,[15,2]	[28],30,31	15,17	X,Y	10,11
	19,20			[18,23,2],27,2,29,2	6,[8]	8,9,[11]
	14,15,[16,18]	11			2	

TABLE 1

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

Item 3sp - STR Results

4CHC7Z	GlobalFiler™						
		15.3,16.3	17,19	11,14	14,18	11	
	3sp	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27.2,29.2	6	8,9
	14,15	11			2		
4FE37K	PowerPlex® 17 Fast						
		15.3,16.3	17,19	11,14	14,18		
	3sp		13,14	16	17,20		13,14
		17,18	12,14	30,31	15,17	X,Y	
		19,20			27.2,29.2	6	
	14,15						
4X2E4K	Identifiler® Plus						
		-	17,19	-	14,18	11	-
	3sp	12	13,14	-	-	8,11	13,14
		17,18	12,14	30,31	-	X,Y	10,11
		19,20	-	-	-	6	8,9
	14,15	-	-	-	-		
6CJY77	GlobalFiler™						
		15.3,16.3	17,19	11,14	14,18	11	
	3sp	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27.2,29.2	6	8,9
	14,15	11			2		
6DWZ67	GlobalFiler™						
		15.3,16.3	17,19	11,14	14,18	11	
	3sp	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27.2,29.2	6	8,9
	14,15	11			2		
6L49UZ	GlobalFiler™ (STRmix)						
		15.3,16.3	17,19	11,14	14,18	11	
	3sp	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27.2,29.2	6	8,9
	14,15	11			2		
6MYFPJ	PowerPlex® Fusion						
		15.3,16.3	17,19	11,14	14,18	11	
	3sp	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20	9	5,7		6	8,9
	14,15	11					

TABLE 1

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

Item 3sp - STR Results

6RRF8L	Identifiler® Plus					
		17,19		14,18	11,11	
3sp	12,12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6,6	8,9
	14,15					
6XHR8N	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15	11				
6XXCQL	Identifiler® Plus					
		17,19		14,18	11,11	
3sp	12,12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6,6	8,9
	14,15					
76DFQD	PowerPlex® 21 (STRmix)					
	15.3,16.3	17,19		14,18	11,11	11,11
3sp	12,12	13,14		17,20	8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15					
7AQXTA	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
7BZ39J	Identifiler® Plus					
		17,19		14,18	11,11	
3sp	12,12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6,6	8,9
	14,15					
7GNMCZ	PowerPlex® Fusion 6C					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27.2,29.2	6	8,9
	14,15	11	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 3sp - STR Results

7MFUU9	PowerPlex® ESI Fast					
	15.3,16.3	17,19	11,14	14,18		
3sp		13,14	16,16	17,20		13,14
	17,18	12,14	30,31	15,17	X,Y	
	19,20				6,6	
	14,15					
7QE9HX	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
7RLPD9	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
7XVLHH	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
7YABJA	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
84F2NZ	PowerPlex® Fusion 6C					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27.2,29.2	6	8,9
	14,15	11	19	19		
89UCN3	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	

TABLE 1

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

Item 3sp - STR Results

8AK3MA	PowerPlex® Fusion					
	15,3,16,3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
8L4E6D	GlobalFiler™ (TrueAllele)					
	15,3,16,3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6,6	8,9
	14,15	11,11			2	
93YLBB	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6,6	8,9
	14,15	11			2	
96B7HZ	PowerPlex® Fusion 6C					
	15,3,16,3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27,2,29,2	6	8,9
	14,15	11	19	19		
98BFNV	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	
9DFB9V	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	
9TEZMF	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	

TABLE 1

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

Item 3sp - STR Results

A2LELM	Investigator® 24plex					
	15,3,16,3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	[28],30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6,6	8,9
	14,15	11				
AFLYLZ	PowerPlex® Fusion 6C					
	15,3,16,3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27,2,29,2	6	8,9
	14,15	11	19	19		
AHTB6M	Investigator® 24plex QS					
	15,3,16,3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6,6	8,9
	14,15	11				
APQZY	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6,6	8,9
	14,15	11			2	
AWMZYX	PowerPlex® Fusion 6C					
	15,3,16,3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27,2,29,2	6	8,9
	14,15	11	19	19		
B3TWHX	PowerPlex® Fusion 6C					
	15,3,16,3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27,2,29,2	6	8,9
	14,15	11	19	19		
BDP3AB	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	

TABLE 1

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

Item 3sp - STR Results

BHNNCR	GlobalFiler™ (STRmix)						
		15.3,16.3	17,19	11,14	14,18	11,11	
	3sp	12,12	13,14	16,16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27.2,29.2	6,6	8,9
		14,15	11			2	
BL97KJ	GlobalFiler™						
		15.3,16.3	[16],17,19	[10],11,14	14,[16],18	[10],11	
	3sp	12	[12],13,14	[13],16	17,20	8,11,[12]	[11],13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27.2,29.2	6,[8]	8,9
		14,15	11			2	
BUG8QX	Investigator® 24plex						
		15.3,16.3	17,19	11,14	14,18	11	
	3sp	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27.2,29.2	6	8,9
		14,15	11				
C39FZA	GlobalFiler™						
		15.3,16.3	17,19	11,14	14,18	11,11	
	3sp	12,12	13,14	16,16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27.2,29.2	6,6	8,9
		14,15	11			2	
C3NWYA	Identifiler®, Investigator® 24plex QS						
		15.3,16.3	17,19	11,14	14,18	11,11	N/A
	3sp	12,12	13,14	16,16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20	N/A	N/A	27.2,29.2	6,6	8,9
		14,15	11	N/A	N/A	N/A	
CE3LHR	GlobalFiler™ (STRmix)						
		15.3,16.3	17,19	11,14	14,18	11	
	3sp	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27.2,29.2	6	8,9
		14,15	11			2	
CEJ84A	GlobalFiler™						
		15.3,16.3	17,19	11,14	14,18	11	
	3sp	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	[28],30,31	15,17	X,Y	10,11
		19,20			27.2,29.2	6	8,9
		14,15	11			2	

TABLE 1

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

Item 3sp - STR Results

CGMDUU	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
CJVG7	Identifiler® Plus					
		17,19		14,18	11,11	
3sp	12,12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6,6	8,9
	14,15					
CN8XRM	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	[14],17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
CT4Z3V	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
DNMHCK	Investigator® 24plex QS					
	15.3,16.3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11				
DR8WV7	Identifiler® Plus (STRmix)					
		17,19		14,18	11,11	
3sp	12,12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6,6	8,9
	14,15					
DTX6WU	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	

TABLE 1

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

Item 3sp - STR Results

E8W2J9	GlobalFiler™						
		15.3,16.3	17,19	11,14	14,18	11	
	3sp	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27.2,29.2	6	8,9
		14,15	11			2	
EBVF8X	PowerPlex® Fusion 5C						
		15.3,16.3	17,19	11,14	14,18	11,11	
	3sp	12,12	13,14	16,16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20	9,9	5,7		6,6	8,9
		14,15	11				
EHD18B	GlobalFiler™						
		15.3,16.3	17,19	11,14	14,18	11,11	
	3sp	12,12	13,14	16,16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27.2,29.2	6,6	8,9
		14,15	11			2	
EKK42Z	GlobalFiler™						
		15.3,16.3	17,19	11,14	14,18	11	
	3sp	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27.2,29.2	6	8,9
		14,15	11			2	
ERHTMB	PowerPlex® 21						
		15.3,16.3	17,19		14,18	11,11	11,11
	3sp	12,12	13,14		17,20	8,11	13,14
		17,18	12,14	30,31		X,Y	10,11
		19,20	9,9	5,7		6,6	8,9
		14,15					
EWFCPA	Identifiler® Plus						
		-	17,19	-	14,18	11	-
	3sp	12	13,14	-	-	8,11	13,14
		17,18	12,14	30,31	-	X,Y	10,11
		19,20	-	-	-	6	8,9
		14,15	-	-	-	-	-
FE8M2B	PowerPlex® 21						
		15.3,16	17,19		14,18	11	11
	3sp	12	13,14		17,20	8,11	13,14
		17,18	12,14	30,31		X,Y	10,11
		19,20	9	5,7		6	8,9
		14,15					

TABLE 1

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

Item 3sp - STR Results

FJ7WFJ	Investigator® 24plex					
	15.3,16.3	17,19	11,14	14,18	11,11	
	3sp 12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11				
FPUJ94	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11	
	3sp 12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
FQ4NK7	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
	3sp 12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11		2		
G2EKX9	PowerPlex® 21					
	15.3,16.3	17,19		14,18	11,11	11,11
	3sp 12,12	13,14		17,20	8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15					
GDWVKJ	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11	
	3sp 12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
GGEKA4	PowerPlex® 21					
	15.3,16.3	17,19		14,18	11,11	11,11
	3sp 12,12	13,14		17,20	8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15					
GKURFW	Investigator® 24plex					
	15.3,16.3	17,19	11,14	14,18	11	
	3sp 12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11				

TABLE 1

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

Item 3sp - STR Results

GRQMDV	PowerPlex® Fusion 5C					
	15,3,16.3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15	11				
GUEQVL	GlobalFiler™ (STRmix)					
	15,3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
GVANE9	PowerPlex® 21					
	15,3,16.3	17,19		14,18	11,11	11,11
3sp	12,12	13,14		17,20	8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15					
GXGYDX	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
H39XDR	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
H8ZT4K	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
HEJQGR	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	

TABLE 1

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

Item 3sp - STR Results

HJX4LK	GlobalFiler™ (STRmix)					
	15,3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
HQDEN8	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
J7NDAJ	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	NT
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	NT	NT	27.2,29.2	6	8,9
	14,15	11	NT	NT	2	
K3K2TA	PowerPlex® 16 HS					
				14,18	11,11	
3sp	12,12	13,14			8,11	13,14
	17,18		30,31		X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15					
K7329P	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	
K9ALV6	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
KDEHE6	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				

TABLE 1

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

Item 3sp - STR Results

KDG8M9	PowerPlex® Fusion 5C						
		15,3,16.3	17,19	11,14	14,17,18	11,11	
	3sp	12,12	13,14	16,16	17,20	8,11	12,13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20	9,9	5,7		6,6	8,9
	14,15	11					
KJQ4RH	PowerPlex® Fusion						
		15,3,16.3	17,19	11,14	14,18	11	
	3sp	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20	9	5,7		6	8,9
	14,15	11					
KM62WJ	GlobalFiler™						
		15,3,16.3	17,19	11,14	14,18	11	
	3sp	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27,2,29,2	6	8,9
	14,15	11			2		
KV2XKM	PowerPlex® Fusion 6C						
		15,3,16.3	17,19	11,14	14,18	11	
	3sp	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20	9	5,7	27,2,29,2	6	8,9
	14,15	11	19	19			
KZBUNW	PowerPlex® Fusion						
		15,3,16.3	17,19	11,14	14,18	11	
	3sp	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20	9	5,7		6	8,9
	14,15	11					
L94P2K	PowerPlex® Fusion 6C						
		15,3,16.3	17,19	11,14	14,18	11	
	3sp	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20	9	5,7	27,2,29,2	6	8,9
	14,15	11	19	19			
LRG9V3	PowerPlex® Fusion						
		15,3,16.3	17,19	11,14	14,18	11	
	3sp	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20	9	5,7		6	8,9
	14,15	11					

TABLE 1

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

Item 3sp - STR Results

MACTYL	GlobalFiler™						
		15.3,16.3	17,19	11,14	14,18	11	
	3sp	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27.2,29.2	6	8,9
		14,15	11			2	
MCX34Z	Identifiler® Plus						
			17,19		14,18	11	
	3sp	12	13,14			8,11	13,14
		17,18	12,14	30,31		X,Y	10,11
		19,20				6	8,9
		14,15					
MEQ84F	GlobalFiler™ (STRMIX)						
		15.3,16.3	17,19	11,14	14,18	11,11	
	3sp	12,12	13,14	16,16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27.2,29.2	6,6	8,9
		14,15	11			2	
MKV3MF	GlobalFiler™ (STRmix)						
		15.3,16.3	17,19	11,14	14,18	11	
	3sp	12	13,14	16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27.2,29.2	6	8,9
		14,15	11			2	
MP6NRZ	Identifiler®						
			17,19		14,18	11	
	3sp	12	13,14			8,11	13,14
		17,18	12,14	30,31		X,Y	10,11
		19,20				6	8,9
		14,15					
MVBMVX	GlobalFiler™						
		15.3,16.3	17,19	11,14	14,18	11,11	
	3sp	12,12	13,14	16,16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20			27.2,29.2	6,6	8,9
		14,15	11			2	
MYA9YE	PowerPlex® Fusion 6C						
		15.3,16.3	17,19	11,14	14,18	11,11	
	3sp	12,12	13,14	16,16	17,20	8,11	13,14
		17,18	12,14	30,31	15,17	X,Y	10,11
		19,20	9,9	5,7	27.2,29.2	6,6	8,9
		14,15	11	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 3sp - STR Results

N76TDF	GlobalFiler™ (STRmix)					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
NG37J2	PowerPlex® 23					
	15.3,16.3	17,19		14,18	11,11	11,11
3sp	12,12	13,14		17,20	8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15					
NZGBXH	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	
P2QE9L	Identifiler®, GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
P7L7GH	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
P8HAZZ	Identifiler®					
		17,19		14,18	11,11	
3sp	12,12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6,6	8,9
	14,15					
PD7WUK	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	

TABLE 1

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

Item 3sp - STR Results

PHX73X	GlobalFiler™					
		15.3,16.3	17,19	[10],11,14	14,18	11
	3sp	12	13,14	16	17,20	8,11
		17,18	12,14	30,31	15,17	X,Y
		19,20			27.2,29.2	6
	14,15	11			2	
PN4X9A	GlobalFiler™					
		15.3,16.3	17,19	11,14	14,18	11,11
	3sp	12,12	13,14	16,16	17,20	8,11
		17,18	12,14	30,31	15,17	X,Y
		19,20			27.2,29.2	6,6
	14,15	11			2	
PNNEQX	Identifiler® Plus					
			17,19		14,18	11
	3sp	12	13,14			8,11
		17,18	12,14	30,31		X,Y
		19,20				6
	14,15					
PYKKHB	PowerPlex® Fusion					
		15.3,16.3	17,19	11,14	14,18	11
	3sp	12	13,14	16	17,20	8,11
		17,18	12,14	30,31	15,17	X,Y
		19,20	9	5,7		6
	14,15	11				
QAY94E	GlobalFiler™ (STRMIX)					
		15.3,16.3	17,19	11,14	14,18	11
	3sp	12	13,14	16	17,20	8,11
		17,18	12,14	30,31	15,17	X,Y
		19,20			27.2,29.2	6
	14,15	11			2	
QC3UHL	PowerPlex® Fusion 5C					
		15.3,16.3	17,19	11,14	14,18	11,11
	3sp	12,12	13,14	16,16	17,20	8,11
		17,18	12,14	30,31	15,17	X,Y
		19,20	9,9	5,7		6,6
	14,15	11				
QHCPMV	GlobalFiler™					
		15.3,16.3	17,19	11,14	14,18	11,11
	3sp	12,12	13,14	16,16	17,20	8,11
		17,18	12,14	30,31	15,17	X,Y
		19,20			27.2,29.2	6,6
	14,15	11			2	

TABLE 1

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

Item 3sp - STR Results

QHPXT	Identifiler® Plus (STRmix)					
		17,19		14,18	11,11	
3sp	12,12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6,6	8,9
	14,15					
QWQNF	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
QYEPCA	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
R47NBH	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
RBPGFA	PowerPlex® Fusion 5C					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
RQ6KYJ	GlobalFiler™					
	[14],15.3,16.3	17,19,[20]	[10],11,14	14,[16],18	11,[12]	
3sp	12	[12],13,14,[16]	[13],[14],16	17,20,[24]	8,11	13,14
	[14],[15],17,18	12,14	[28],30,31	15,17	X,Y	10,11
	19,20			[18],[23.2],27.2,29.2	6,[8]	8,9
	14,15,[16]	11			2	
RU6T8Z	PowerPlex® Fusion 5C					
	15.3,16.3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15	11				

TABLE 1

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

Item 3sp - STR Results

T48BGH	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
T6FLBZ	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15	11				
T8L9LJ	PowerPlex® Fusion 5C					
	15.3,16.3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15	11				
TAE8AB	GlobalFiler™ (STRmix)					
	15.3,16.3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11			2	
TB4AMX	PowerPlex® 21					
	15.3,16.3	17,19		14,18	11,11	11,11
3sp	12,12	13,14		17,20	8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15					
TMZ9HA	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
TRA3KD	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				

TABLE 1

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

Item 3sp - STR Results

TRRJT9	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
TZ9WVD	PowerPlex® Fusion 6C					
	15,3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27,2,29,2	6	8,9
	14,15	11	19	19		
U2R2PA	GlobalFiler™ (STRmix)					
	15,3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	
U4GUHQ	Identifiler®, Investigator® 24plex QS					
	15,3,16.3	17,19	11,14	14,18	11,11	N/A
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	N/A	N/A	27,2,29,2	6,6	8,9
	14,15	11	N/A	N/A	N/A	
U7LXCE	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	
U8YYBU	PowerPlex® Fusion 5C					
	15,3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
UATNVB	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	

TABLE 1

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

Item 3sp - STR Results

UBY7T7	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11	
	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
UMUG2D	PowerPlex® Fusion 6C					
	15.3,16.3	17,19	11,14	14,18	11	
	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27.2,29.2	6	8,9
	14,15	11	19	19		
UT6D7M	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11	
	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
VALVFZ	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11		2		
VG443B	PowerPlex® Fusion 6C					
	15.3,16.3	17,19	11,14	14,18	11	
	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27.2,29.2	6	8,9
	14,15	11	19	19		
VKZMQ8	GlobalFiler™ (STRmix)					
	15.3,16.3	17,19	11,14	14,18	11,11	
	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11		2		
VTFTF7	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11		2		

TABLE 1

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

Item 3sp - STR Results

VTZ89Q	Identifiler®, Investigator® 24plex QS					
	15,3,16,3	17,19	11,14	14,18	11,11	N/A
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	N/A	N/A	27,2,29,2	6,6	8,9
	14,15	11	N/A	N/A	N/A	
WM3BUJ	PowerPlex® Fusion					
	15,3,16,3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
WM7XCW	Identifiler® Plus					
	-	17,19	-	14,18	11,11	-
3sp	12,12	13,14	-	-	8,11	13,14
	17,18	12,14	30,31	-	X,Y	10,11
	19,20	-	-	-	6,6	8,9
	14,15	-	-	-	-	
WWDZPM	PowerPlex® 21					
	15,3,16,3	17,19		14,18	11,11	11,11
3sp	12,12	13,14		17,20	8,11	13,14,[15]
	17,18	12,14	30,31		X,Y	10,11
	19,20	9,9	5,7		6,6	8,9
	14,15					
WZCQ4A	PowerPlex® Fusion 6C					
	15,3,16,3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27,2,29,2	6	8,9
	14,15	11	19	19		
X8PQKB	GlobalFiler™					
	15,3,16,3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	
X94LFX	PowerPlex® Fusion 6C (STRmix)					
	15,3,16,3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9,9	5,7	27,2,29,2	6,6	8,9
	14,15	11	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 3sp - STR Results

XFMRQ	Identifiler® Plus					
		17,19		14,18	11	
3sp	12	13,14			8,11	13,14
	17,18	12,14	30,31		X,Y	10,11
	19,20				6	8,9
	14,15					
XHTEQA	PowerPlex® Fusion 6C					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27.2,29.2	6	8,9
	14,15	11	19	19		
XJZUYZ	Investigator® 24plex					
	15.3,16.3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11				
XRJHQ	Identifiler® Plus					
	-	17,19	-	14,18	11	-
3sp	12	13,14	-	-	8,11	13,14
	17,18	12,14	30,31	-	X,Y	10,11
	19,20	--	-	-	6	8,9
	14,15	-	-	-	-	
XU7GAL	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
XVC2XL	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
XXKJ6B	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	

TABLE 1

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

Item 3sp - STR Results

Y8PJ6J	PowerPlex® Fusion					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
Y9J8PZ	Investigator® 24plex					
	15.3,16.3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6,6	8,9
	14,15	11				
YFWFTM	Identifiler®, Investigator® 24plex QS					
	15.3,16.3	17,19	11,14	14,18	11,11	N/A
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	N/A	N/A	27.2,29.2	6,6	8,9
	14,15	11	N/A	N/A	N/A	
YL7CXW	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
YTKTC4	GlobalFiler™ (STRmix)					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
Z7MBEB	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	
ZCGFG9	GlobalFiler™					
	15.3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27.2,29.2	6	8,9
	14,15	11			2	

TABLE 1

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

Item 3sp - STR Results

ZKUYTZ	Investigator® 24plex					
	15,3,16.3	17,19	11,14	14,18	11,11	
3sp	12,12	13,14	16,16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6,6	8,9
	14,15	11				
ZNRKHG	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
ZUWG2G	PowerPlex® Fusion					
	15,3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7		6	8,9
	14,15	11				
ZUY8BK	PowerPlex® Fusion, GlobalFiler™ (Genemapper ID-X)					
	15,3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20	9	5,7	27,2,29,2	6	8,9
	14,15	11			2	
ZV7N6A	GlobalFiler™					
	15,3,16.3	17,19	11,14	14,18	11	
3sp	12	13,14	16	17,20	8,11	13,14
	17,18	12,14	30,31	15,17	X,Y	10,11
	19,20			27,2,29,2	6	8,9
	14,15	11			2	

TABLE 1

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

Item 4 - STR Results

2C8TAX	GlobalFiler™					
		13,14,15,16	16,20	10,14	15,16,17,18	10,12
4		8,12	11,12,15,16	13,14	17,23,24	11,12
		14,15	14,15.2	27,28	14,15,16,17	X,X
		20,21,22			17,18,22.2,23.2	8,8
		16,17,18				8,11
2G68WM	Identifiler® Plus					
		-	16,20	-	16,18	10,12
4		8,12	12,16	-	-	11,12
		14,15	14,15.2	28	-	X,X
		20,22	-	-	-	8
		16,18	-	-	-	8,11
2LG6HN	PowerPlex® 21					
		14,16	16,20		16,18	10,12
4		8,12	12,16		17,24	11,12
		14,15	14,15.2	28,28		X,X
		20,22	2.2,12	8,17		8,8
		16,18				8,11
2LJPCJ	PowerPlex® Fusion					
		14,16	16,20	10,14	16,18	10,12
4		8,12	12,16	13,14	17,24	11,12
		14,15	14,15.2	28	15,17	X
		20,22	2.2,12	8,17		8
		16,18				8,11
2XD4FM	Identifiler® Plus					
			16,20		16,18	10,12
4		8,12	12,16			11,12
		14,15	14,15.2	28		X,X
		20,22				8
		16,18				8,11
3BW9ZN	Identifiler®					
			16,20		16,18	10,12
4		8,12	12,16			11,12
		14,15	14,15.2	28,28		X,X
		20,22				8,8
		16,18				8,11
3HR9BA	PowerPlex® Fusion 5C					
		14,16	16,20	10,14	16,18	10,12
4		8,12	12,16	13,14	17,24	11,12
		14,15	14,15.2	28,28	15,17	X,X
		20,22	2.2,12	8,17		8,8
		16,18				8,11

TABLE 1

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

Item 4 - STR Results

3J86P8	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
3NFV7F	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
3R2FBJ	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18	NR			NR	
3U9VKB	Investigator® 24plex					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
3WEFAW	Investigator® 24plex					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
43FWJG	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
4BNNLJ	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X,X	11
	20,22			18,23.2	8	8,11
	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 4 - STR Results

4CHC7Z	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18	NA			NA	
4FE37K	PowerPlex® 17 Fast					
	14,16	16,20	10,14	16,18		
4		12,16	13,14	17,24		11,13
	14,15	14,15.2	28	15,17	X	
	20,22			18,23.2	8	
	16,18					
4X2E4K	Identifiler® Plus					
	-	16,20	-	16,18	10,12	-
4	8,12	12,16	-	-	11,12	11,13
	14,15	14,15.2	28	-	X,X	11
	20,22	-	-	-	8	8,11
	16,18	-	-	-	-	
6CJY77	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
6DWZ67	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
6L49UZ	GlobalFiler™ (STRmix)					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
6MYFPJ	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	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 4 - STR Results

6NE3HC	NGM SElect					
	14,16	16,20	10,14	16,18		
4		12,16	13,14	17,24		11,13
	14,15	14,15.2	28,28	15,17	X,X	
	20,22			18,23.2	8,8	
	16,18					
6RRF8L	Identifiler® Plus					
		16,20		16,18	10,12	
4	8,12	12,16			11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22				8,8	8,11
	16,18					
6XHR8N	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
6XXCQL	Identifiler® Plus					
		16,20		16,18	10,12	
4	8,12	12,16			11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22				8,8	8,11
	16,18					
76DFQD	PowerPlex® 21 (STRmix)					
	14,16	16,20		16,18	10,12	13,18
4	8,12	12,16		17,24	11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
7AQXTA	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
7BZ39J	Identifiler® Plus					
		16,20		16,18	10,12	
4	8,12	12,16			11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22				8,8	8,11
	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 4 - STR Results

7GNMCZ	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
7MFUU9	PowerPlex® ESI Fast					
	14,16	16,20	10,14	16,18		
4		12,16	13,14	17,24		11,13
	14,15	14,15.2	28,28	15,17	X,X	
	20,22				8,8	
	16,18					
7QE9HX	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18	NR			NR	
7RLPD9	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
7XVLHH	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X,X	11
	20,22			18,23.2	8	8,11
	16,18					
7YABJA	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
84F2NZ	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	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 4 - STR Results

89UCN3	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
8AK3MA	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
8L4E6D	GlobalFiler™ (TrueAllele)					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
93YLBB	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
96B7HZ	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
98BFNV	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18	NR			NR	
9DFB9V	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	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 4 - STR Results

9TEZMF	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X,X	11
	20,22			18,23.2	8	8,11
	16,18	-			-	
A2LELM	Investigator® 24plex					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
AFLYLZ	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
AHTB6M	Investigator® 24plex QS					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
APQ7ZY	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18	NR			NR	
AWMZYX	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
B3TWHX	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	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 4 - STR Results

BDP3AB	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
BHNNCR	GlobalFiler™ (STRmix)					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
BL97KJ	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18	-			-	
BUG8QX	Investigator® 24plex					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
C39FZA	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22			18,23.2	8,8	8,11
	16,18	NR			NR	
C3NWYA	Identifiler®, Investigator® 24plex QS					
	14,16	16,20	10,14	16,18	10,12	N/A
4	8,12	12,16	13,14	INC	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22	N/A	N/A	18,23.2	8,8	8,11
	16,18	N/A	N/A	N/A	N/A	
CE3LHR	GlobalFiler™ (STRmix)					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	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 4 - STR Results

CEJ84A	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
CGMDUU	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
CJVG7	Identifiler® Plus					
		16,20		16,18	10,12	
4	8,12	12,16			11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22				8,8	8,11
	16,18					
CN8XRM	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
CT4Z3V	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
DR8WV7	Identifiler® Plus (STRmix)					
		16,20		16,18	10,12	
4	8,12	12,16			11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22				8,8	8,11
	16,18					
E8W2J9	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X,X	11
	20,22			18,23.2	8	8,11
	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 4 - STR Results

EBVF8X	PowerPlex® Fusion 5C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
EHDL8B	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
EKK42Z	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
ERHTMB	PowerPlex® 21					
	14,16	16,20		16,18	10,12	13,18
4	8,12	12,16		17,24	11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
EWFCPA	Identifiler® Plus					
	-	16,20	-	16,18	10,12	-
4	8,12	12,16	-	-	11,12	11,13
	14,15	14,15.2	28	-	X,X	11
	20,22	-	-	-	8	8,11
	16,18	-	-	-	-	
FE8M2B	PowerPlex® 21					
	14,16	16,20		16,18	10,12	13,18
4	8,12	12,16		17,24	11,12	11,13
	14,15	15,15.2	28		X,X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
FJ7WFJ	Investigator® 24plex					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	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 4 - STR Results

FPUJ94	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
FQ4NK7	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
G2EKX9	PowerPlex® 21					
	14,16	16,20		16,18	10,12	13,18
4	8,12	12,16		17,24	11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
GDW XKJ	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18	NR				
GGEKA4	PowerPlex® 21					
	14,16	16,20		16,18	10,12	13,18
4	8,12	12,16		17,24	11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
GKURFW	Investigator® 24plex					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
GRQMDV	PowerPlex® Fusion 5C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	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 4 - STR Results

GUEQVL	GlobalFiler™ (STRmix)					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
GVANE9	PowerPlex® 21					
	14,16	16,20		16,18	10,12	13,18
4	8,12	12,16		17,24	11,12	11,13
	14,15	14,15.2	28,28		XX	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
GXGYDX	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
H39XDR	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
H8ZT4K	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18	NR			NR	
HEJQGR	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
HJX4LK	GlobalFiler™ (STRmix)					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	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 4 - STR Results

HQDEN8	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
J7NDAJ	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	NT
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	NT	NT	18,23.2	8	8,11
	16,18	NR	NT	NT	NR	
K3K2TA	PowerPlex® 16 HS					
				16,18	10,12	
4	8,12	12,16			11,12	11,13
	14,15		28,28		X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
K7329P	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18	NR			NR	
K9ALV6	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
KDEHE6	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
KDG8M9	PowerPlex® Fusion 5C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	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 4 - STR Results

KJQ4RH	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18	NR				
KM62WJ	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18	No results			No results	
KV2XKM	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
KZBUNW	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
L94P2K	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
LRG9V3	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
MACTYL	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	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 4 - STR Results

MCX34Z	Identifiler® Plus					
		16,20		16,18	10,12	
4	8,12	12,16			11,12	11,13
	14,15	14,15.2	28		X,X	11
	20,22				8	8,11
	16,18					
MEQ84F	GlobalFiler™ (STRMIX)					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
MKV3MF	GlobalFiler™ (STRmix)					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
MP6NRZ	Identifiler®					
		16,20		16,18	10,12	
4	8,12	12,16			11,12	11,13
	14,15	14,15.2	28		X	11
	20,22				8	8,11
	16,18					
MVBMVX	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18	NR			NR	
MYA9YE	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2.2,12	8,17	18,23.2	8,8	8,11
	16,18	ND	ND	ND		
N76TDF	GlobalFiler™ (STRmix)					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	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 4 - STR Results

NZGBXH	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
P2QE9L	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
P7L7GH	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
P8HA2Z	Identifiler®					
		16,20		16,18	10,12	
4	8,12	12,16			11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22				8,8	8,11
	16,18					
PD7WUK	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18	NR			NR	
PHX73X	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X,X	11
	20,22			18,23.2	8	8,11
	16,18					
PN4X9A	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	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 4 - STR Results

PNNEQX	Identifiler® Plus					
		16,20		16,18	10,12	
4	8,12	12,16			11,12	11,13
	14,15	14,15.2	28		X,X	11
	20,22				8	8,11
	16,18					
PYKKBH	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18	NR				
QAY94E	(STRMIX)					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
QC3UHL	PowerPlex® Fusion 5C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
QHCPMV	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18	No Results			No Results	
QHT26Z						
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
QHXPXT	Identifiler® Plus (STRmix)					
		16,20		16,18	10,12	
4	8,12	12,16			11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22				8,8	8,11
	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 4 - STR Results

QWQNF PowerPlex® Fusion

	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					

QYEPCA PowerPlex® Fusion

	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18	NR				

R47NBH GlobalFiler™

	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					

RBPFGA PowerPlex® Fusion 5C

	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18	NR				

RQ6KYJ GlobalFiler™

	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					

RU6T8Z PowerPlex® Fusion 5C

	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					

T48BGH GlobalFiler™

	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	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 4 - STR Results

T6FLBZ	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
T8L9LJ	PowerPlex® Fusion 5C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
TAE8AB	GlobalFiler™ (STRmix)					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
TB4AMX	PowerPlex® 21					
	14,16	16,20		16,18	10,12	13,18
4	8,12	12,16		17,24	11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
TGW8K2	Identifiler®					
		16,20		16,18	10,12	
4	8,12	12,16			11,12	11,13
	14,15	14,15.2	28			11
	20,22				8	8,11
	16,18					
TMZ9HA	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18	NR			NR	
TRA3KD	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	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 4 - STR Results

TRRJ9	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18	NR				
TZ9WVD	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
U2R2PA	GlobalFiler™ (STRmix)					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
U4GUHQ	Identifiler®, Investigator® 24plex QS					
	14,16	16,20	10,14	16,18	10,12	N/A
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22	N/A	N/A	18,23.2	8,8	8,11
	16,18	N/A	N/A	N/A	N/A	
U7LXCE	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
U8YYBU	PowerPlex® Fusion 5C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
UATNVB	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	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 4 - STR Results

UBY7T7	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18	NR				
UMUG2D	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
UT6D7M	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
VALVFZ	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
VG443B	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
VKZMQ8	GlobalFiler™ (STRmix)					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
VTFTF7	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	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 4 - STR Results

VTZ89Q	Identifiler®, Investigator® 24plex QS					
	14,16	16,20	10,14	16,18	10,12	N/A
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	N/A	N/A	18,23.2	8,8	8,11
	16,18	N/A	N/A	N/A	N/A	
W927EC	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
WLWNJZ	PowerPlex® Fusion 6C (STRmix)					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22	2.2,12	8,17	18,23.2	8,8	8,11
	16,18					
WM3BUJ	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
WM7XCW	Identifiler® Plus					
	-	16,20	-	16,18	10,12	-
4	8,12	12,16	-	-	11,12	11,13
	14,15	14,15.2	28,28	-	X,X	11,11
	20,22	-	-	-	8,8	8,11
	16,18	-	-	-	-	
WWDZPM	PowerPlex® 21					
	14,16	16,20		16,18	10,12	13,18
4	8,12	12,16		17,24	11,12	11,13
	14,15	14,15.2	28,28		X,X	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					
WZCQ4A	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	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 4 - STR Results

X8PQKB	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
X94LFX	PowerPlex® Fusion 6C (STRmix)					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22	2.2,12	8,17	18,23.2	8,8	8,11
	16,18					
XFMREQ	Identifiler® Plus					
		16,20		16,18	10,12	
4	8,12	12,16			11,12	11,13
	14,15	14,15.2	28		XX	11
	20,22				8	8,11
	16,18					
XHTEQA	PowerPlex® Fusion 6C					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
XJZUYZ	Investigator® 24plex					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
XRJHQ	Identifiler® Plus					
	-	16,20	-	16,18	10,12	-
4	8,12	12,16	-	-	11,12	11,13
	14,15	14,15.2	28	-	XX	11
	20,22	-	-	-	8	8,11
	16,18	-	-	-	-	
XU7GAL	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	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 4 - STR Results

XVC2XL	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
XXKJ6B	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
Y8PJ6J	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
Y9J8PZ	Investigator® 24plex					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
YFWFTM	Identifiler®, Investigator® 24plex QS					
	14,16	16,20	10,14	16,18	10,12	N/A
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22	N/A	N/A	18,23.2	8,8	8,11
	16,18	N/A	N/A	N/A	N/A	
YL7CXW	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18	NR			NR	
YTKTC4	GlobalFiler™ (STRmix)					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	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 4 - STR Results

Z7MBEB	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
ZCGFG9	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	16,18					
ZKUYZT	Investigator® 24plex					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	X,X	11,11
	20,22			18,23.2	8,8	8,11
	16,18					
ZNRKHG	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
ZUWG2G	PowerPlex® Fusion					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17		8	8,11
	16,18					
ZUY8BK	PowerPlex® Fusion, GlobalFiler™ (Genemapper ID-X)					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22	2.2,12	8,17	18,23.2	8	8,11
	16,18					
ZV7N6A	GlobalFiler™					
	14,16	16,20	10,14	16,18	10,12	
4	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28	15,17	X	11
	20,22			18,23.2	8	8,11
	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 4e - STR Results

DNMHCK Investigator® 24plex QS

	14,16	16,20	10,14	16,18	10,12	
4e	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22			18,23.2	8,8	8,11
	16,18					

DTX6WU GlobalFiler™

	14,16	16,20	10,14	16,18	10,12	
4e	8,12	12,16	13,14	17,24	11,12	11,13
	14,15	14,15.2	28,28	15,17	XX	11,11
	20,22			18,23.2	8,8	8,11
	16,18					

NG37J2 PowerPlex® 23

	14,16	16,20		16,18	10,12	13,18
4e	8,12	12,16		17,24	11,12	11,13
	14,15	14,15.2	28,28		XX	11,11
	20,22	2.2,12	8,17		8,8	8,11
	16,18					

TABLE 1

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

DNMHCK Investigator® 24plex QS

4sp



DTX6WU GlobalFiler™

4sp



NG37J2 PowerPlex® 23

4sp



YSTR Amplification Kit(s) & Results

TABLE 2

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

Item 1 - YSTR Results

4FE37K	PowerPlex® Y 23								
1	-	-	-	-	-	-	-	-	-
AHTB6M	Yfiler™								
1									
DNMHCK	Yfiler™								
1									
K7329P	Yfiler™ Plus								
1	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
MP6NRZ	Yfiler™								
1	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA		NA	NA		NA
							NA		NA
PNNEQX	Yfiler™								
1	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 2 - YSTR Results										
2G68WM	Yfiler™									
	-	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	-	17	17	-	-	
	-	-	-	-	-	-	23	-	12	
2LG6HN	PowerPlex® Y									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	
2XD4FM	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17			
							23		12	
3R2FBJ	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
3U9VKB	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
4BNNLJ	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	
4CHC7Z	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
4FE37K	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	
4X2E4K	Yfiler™									
	-	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	-	17	17	-	-	
	-	-	-	-	-	-	23	-	12	
6DWZ67	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
6HNXGV	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17			
							23		12	
7QE9HX	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 2 - YSTR Results										
7XVLHH	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	
8L4E6D	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
98BFNV	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
9DFB9V	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
9TEZMF	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	
AHTB6M	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17			
							23		12	
APQ7ZY	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
BDP3AB	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17			
							23		12	
BHNNCR	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
BL97KJ	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
C39FZA	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
CE3LHR	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 2 - YSTR Results										
CEJ84A	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2		15	12	11	19	17	17			
							23			12
CGMDUU	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2		15	12	11	19	17	17			
							23			12
CN8XRM	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2		15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23			12
DNMHCK	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2		15	12	11	19	17	17			
							23			12
DR8WV7	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
2		15	12	11	19	17	17			22
		12	11	19	19		23	11		12
E8W2J9	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
2		15	12	11	19	17	17			22
		12	11	19	19		23	11		12
ERHTMB	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
2		15	12	11	19	17	17			22
		12	11	19	19		23	11		12
EWFCPA	Yfiler™									
	-	15	11,14	13	29	25	11	13	13	
2		15	12	11	19	-	17	17	-	-
	-	-	-	-	-	-	23	-		12
FE8M2B	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
2		15	12	11	19	17	17			22
		12	11	19	19		23	11		12
FQ4NK7	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2		15	12	11	19	17	17			
							23			12
G2EKX9	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
2		15	12	11	19	17	17			22
		12	11	19	19		23	11		12
GDWVKJ	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2		15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23			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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 2 - YSTR Results

GGEKA4	Yfiler™								
		15	11,14	13	29	25	11	13	13
2		15	12	11	19	17	17		
							23		12
GUEQVL	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
2		15	12	11	19	29	17	17	11
	37	12		19	19	20	23		12
GVANE9	PowerPlex® Y 23								
		15	11,14	13	29	25	11	13	13
2		15	12	11	19	17	17		22
		12	11	19	19		23	11	12
GXGYDX	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
2		15	12	11	19	29	17	17	11
	37	12		19	19	20	23		12
H39XDR	Yfiler™								
		15	11,14	13	29	25	11	13	13
2		15	12	11	19	17	17		
							23		12
H8ZT4K	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
2		15	12	11	19	29	17	17	11
	37	12		19	19	20	23		12
HJX4LK	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
2		15	12	11	19	29	17	17	11
	37	12		19	19	20	23		12
J7NDAJ	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
2		15	12	11	19	29	17	17	11
	37	12	NT	19	19	20	23	NT	12
JHJ2CR	Yfiler™								
		15	11,14	13	29	25	11	13	13
2		15	12	11	19	17	17		
							23		12
K3K2TA	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
2		15	12	11	19	29	17	17	11
	37	12		19	19	20	23		12
K7329P	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
2		15	12	11	19	29	17	17	11
	37	12		19	19	20	23		12
KJQ4RH	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
2		15	12	11	19	29	17	17	11
	37	12		19	19	20	23		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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 2 - YSTR Results										
KM62WJ	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
MACTYL	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17			
							23		12	
MCX34Z	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17			
							23		12	
MKV3MF	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
MP6NRZ	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17			
							23		12	
MVBMVX	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
NG37J2	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	
P2QE9L	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17			
							23		12	
P7L7GH	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17			
							23		12	
PD7WUK	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
PHX73X	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	
PNNEQX	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17			
							23		12	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 2 - YSTR Results										
PYKKHB	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
QC3UHL	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	
QHCPMV	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
QHT26Z		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17		22	
							23		12	
QHXPXT	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	
QYEPCA	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
R47NBH	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17		22	
							23		12	
RBPGFA	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
RQ6KYJ	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
T48BGH	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
T8L9LJ	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	
TAE8AB	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 2 - YSTR Results										
TB4AMX	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	
TMZ9HA	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
TRRJT9	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
U2R2PA	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
UATNVB	Yfiler™ Plus									
	35,36	15	11	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
UBY7T7	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
VALVFZ	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17			
							23		12	
VKZMQ8	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
VTFTF7	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
WLWNJZ	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	
WM7XCW	Yfiler™									
	-	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	-	17	17	-	-	
	-	-	-	-	-	-	23	-	12	
X94LFX	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 2 - YSTR Results										
XFMREQ	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17			
							23			12
XRJHQ	Yfiler™									
	-	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	-	17	17	-	-	
	-	-	-	-	-	-	23	-	-	12
XXKJ6B	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17			
							23			12
Y8PJ6J	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17			
							23			12
YL7CXW	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23			12
Z7MBEB	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23			12
ZCGFG9	Yfiler™									
		15	11,14	13	29	25	11	13	13	
2	15	12	11	19		17	17			
							23			12
ZUY8BK	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23			12
ZV7N6A	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
2	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23			12

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 3 - YSTR Results										
BL97KJ	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
K3K2TA	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
NG37J2		15	11,14	13	29	25	11	13	13	
3	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	
QHT26Z		15	11,14	13	29	25	11	13	13	
3	15	12	11	19		17	17		22	
							23		12	
WLWNJZ	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
3	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 3e - YSTR Results										
2G68WM	Yfiler™									
	-	not detected	11,14	13	29	25	11	13	13	
3e	15	12	not detected	19	-	17	17	-	-	
	-	-	-	-	-	-	23	-	12	
2LG6HN	PowerPlex® Y									
		15	11,14	13	29	25	11	13	13	
3e	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	
2XD4FM	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3e	15	12	11	19		17	17			
							23		12	
3R2FBJ	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3e	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
3U9VKB	Yfiler™ Plus									
3e										
4BNNLJ	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
3e	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	
4CHC7Z	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3e	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
4FE37K	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
3e	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	
4X2E4K	Yfiler™									
	-	not detected	11,14	13	not detected	25	11	13	13	
3e	15	12	not detected	19	-	17	17	-	-	
	-	-	-	-	-	-	23	-	not detected	
6DWZ67	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3e	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
7QE9HX										
	35,36	15	11,14	13	29	25	11	13	13	
3e	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 3e - YSTR Results

7XVLHH	PowerPlex® Y 23								
3e									
8L4E6D	Yfiler™ Plus								
3e									
98BFNV	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
9DFB9V	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
9TEZMF	PowerPlex® Y 23								
		15	11,14	13	29	25	11	13	13
3e	15	12	11	19		17	17		22
		12	11	19	19		23	11	12
AHTB6M	Yfiler™								
		15	11,14	13	29	25	11	13	13
3e	15	12	11	19		17	17		
							23		12
APQ7ZY	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
BDP3AB	Yfiler™								
		15	11,14	13	29	25	11	13	13
3e	15	12	11	19		17	17		
							23		12
BHNNCR	Yfiler™ Plus								
3e									
C39FZA	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
C3NWYA	Yfiler™								
	N/A	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	N/A	17	17	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12
CE3LHR	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 3e - YSTR Results										
CEJ84A	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3e	15	12	11	19		17	17			
							23			12
CGMDUU	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3e	15	12	11	19		17	17			
							23			12
CN8XRM	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3e	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23			12
DNMHCK	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3e	15	12	11	19		17	17			
							23			12
DR8WV7	PowerPlex® Y 23									
3e										
E8W2J9	PowerPlex® Y 23									
3e										
ERHTMB	PowerPlex® Y 23									
3e										
EWFCPA	Yfiler™									
	-	Not Detected	Not Detected	13	Not Detected	25	11	13	13	
3e	15	12	Not Detected	19	-	Not Detected	17	-	-	
	-	-	-	-	-	-	23	-		Not Detected
FE8M2B	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
3e	15	12	11	19		17	17			22
		12	11	19	19		23	11		12
FQ4NK7	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3e	15	12	11	19		17	17			
							23			12
G2EKX9	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
3e	15	12	11	19		17	17			22
		12	11	19	19		23	11		12
GDWVKJ	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3e	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23			12

TABLE 2

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

Item 3e - YSTR Results

GGEKA4	Yfiler™								
		15	11,14	13	29	25	11	13	13
	3e	15	12	11	19		17		
							23		12
GUEQVL	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
	3e	15	12	11	19	29	17	17	11
	37	12		19	19	20	23		12
GVANE9	PowerPlex® Y 23								
		15	11,14	13	29	25	11	13	13
	3e	15	12	11	19		17	17	22
		12	11	19	19		23	11	12
GXGYDX	Yfiler™ Plus								
	3e								
H39XDR	Yfiler™								
	3e								
H8ZT4K	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
	3e	15	12	11	19	29	17	17	11
	37	12		19	19	20	23		12
HJX4LK	Yfiler™ Plus								
	3e								
J7NDAJ	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
	3e	15	12	11	19	29	17	17	11
	37	12	NT	19	19	20	23	NT	12
K7329P	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
	3e	15	12	11	19	29	17	17	11
	37	12		19	19	20	23		12
KJQ4RH	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
	3e	15	12	11	19	29	17	17	11
	37	12		19	19	20	23		12
KM62WJ	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
	3e	15	12	11	19	29	17	17	11
	37	12		19	19	20	23		12
MACTYL	Yfiler™								
	3e								

TABLE 2

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

Item 3e - YSTR Results

MCX34Z	Yfiler™								
		15	11,14	13	29	25	11	13	13
3e		15	12	11	19	17	17		
							23		12
MKV3MF	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
MP6NRZ	Yfiler™								
		15	11,14	13	29	25	11	13	13
3e	15	12	11	19		17	17		
							23		12
MVBMVX	Yfiler™ Plus								
	35,36	15	11	13	NR	25	11	13	NR
3e	15	12	NR	NR	NR	17	17	11	22
	37	12		19	19	20	23		12
P2QE9L	Yfiler™								
3e									
P7L7GH	Yfiler™								
		15	11,14	13	29	25	11	13	13
3e	15	12	11	19		17	17		
							23		12
PD7WUK	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
PHX73X	PowerPlex® Y 23								
3e									
PNNEQX	Yfiler™								
		15	11,14	13	29	25	11	13	13
3e	15	12	11	19		17	17		
							23		12
PYKKBH	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
QC3UHL	PowerPlex® Y 23								
		15	11,14	13	29	25	11	13	13
3e	15	12	11	19		17	17		22
		12	11	19	19		23	11	12
QHCPMV	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 3e - YSTR Results

QHPXT	PowerPlex® Y 23								
3e									
QYEPCA	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
R47NBH	Yfiler™								
3e									
RBPGFA	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
RQ6KYJ	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
T48BGH	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
T8L9LJ	PowerPlex® Y 23								
		15	11,14	13	29	25	11	13	13
3e	15	12	11	19		17	17		22
		12	11	19	19		23	11	12
TAE8AB	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
TB4AMX	PowerPlex® Y 23								
3e									
TMZ9HA	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
TRRJT9	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
U2R2PA	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		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	Y GATA H4
Item 3e - YSTR Results									
U4GUHQ	Yfiler™								
	N/A	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	N/A	17	17	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12
UATNVB	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
UBY7T7	Yfiler™								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
VALVFZ	Yfiler™								
3e									
VKZMQ8	Yfiler™ Plus								
3e									
VTFTF7	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
VTZ89Q	Yfiler™								
	N/A	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	N/A	17	17	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12
WM7XCW	Yfiler™								
	-	15	11,14	13	29	25	11	13	13
3e	15	12	11	19	-	17	17	-	-
	-	-	-	-	-	-	23	-	12
X94LFX	PowerPlex® Y 23								
3e									
XFMREQ	Yfiler™								
		15	11,14	13	29	25	11	13	13
3e	15	12	11	19		17	17		
							23		12
XRJHQ	Yfiler™								
	-	not detected	11,2	13	not detected	25	11	13	13
3e	15	12	not detected	19	-	not detected	17	-	-
	-	-	-	-	-	-	23	-	not detected
XXKJ6B	Yfiler™								
		15	11,14	13	29	25	11	13	13
3e	15	12	11	19		17	17		
							23		12

TABLE 2

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

Item 3e - YSTR Results

Y8PJ6J	Yfiler™								
		15	11,14	13	29	25	11	13	13
3e		15	12	11	19	17	17		
							23		12
YFWFTM	Yfiler™								
	N/A	15	11,14	13	29	25	11	13	13
3e		15	12	11	19	N/A	17	17	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12
YL7CXW	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e		15	12	11	19	29	17	17	11
	37	12		19	19	20	23		12
Z7MBEB	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e		15	12	11	19	29	17	17	11
	37	12		19	19	20	23		12
ZCGFG9	Yfiler™								
		15	11,14	13	29	25	11	13	13
3e		15	12	11	19	17	17		
							23		12
ZUY8BK	Yfiler™ Plus								
3e									
ZV7N6A	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3e		15	12	11	19	29	17	17	11
	37	12		19	19	20	23		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	Y GATA H4	
Item 3sp - YSTR Results										
2G68WM	Yfiler™	-	15	11,14	13	29	25	11	13	13
3sp		15	12	11	19	-	17	17	-	-
		-	-	-	-	-	-	23	-	12
2LG6HN	PowerPlex® Y		15	11,14	13	29	25	11	13	13
3sp		15	12	11	19		17	17		22
			12	11	19	19		23	11	12
2XD4FM	Yfiler™		15	11,14	13	29	25	11	13	13
3sp		15	12	11	19		17	17		
								23		12
3R2FBJ	Yfiler™ Plus	35,36	15	11,14	13	29	25	11	13	13
3sp		15	12	11	19	29	17	17	11	22
		37	12		19	19	20	23		12
3U9VKB	Yfiler™ Plus	35,36	15	11,14	13	29	25	11	13	13
3sp		15	12	11	19	29	17	17	11	22
		37	12		19	19	20	23		12
4BNNLJ	PowerPlex® Y 23		15	11,14	13	29	25	11	13	13
3sp		15	12	11	19		17	17		22
			12	11	19	19		23	11	12
4CHC7Z	Yfiler™ Plus	35,36	15	11,14	13	29	25	11	13	13
3sp		15	12	11	19	29	17	17	11	22
		37	12		19	19	20	23		12
4FE37K	PowerPlex® Y 23		15	11,14	13	29	25	11	13	13
3sp		15	12	11	19		17	17		22
			12	11	19	19		23	11	12
4X2E4K	Yfiler™	-	15	11,14	13	29	25	11	13	13
3sp		15	12	11	19	-	17	17	-	-
		-	-	-	-	-	-	23	-	12
6DWZ67	Yfiler™ Plus	35,36	15	11,14	13	29	25	11	13	13
3sp		15	12	11	19	29	17	17	11	22
		37	12		19	19	20	23		12
7QE9HX		35,36	15	11,14	13	29	25	11	13	13
3sp		15	12	11	19	29	17	17	11	22
		37	12		19	19	20	23		12
7XVLHH	PowerPlex® Y 23		15	11,14	13	29	25	11	13	13
3sp		15	12	11	19		17	17		22
			12	11	19	19		23	11	12

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 3sp - YSTR Results										
8L4E6D	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
98BFNV	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
9DFB9V	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
9TEZMF	PowerPlex® Y 23									
3sp										
AHTB6M	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19		17	17			
							23		12	
APQ7ZY	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
BDP3AB	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19		17	17			
							23		12	
BHNNCR	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
C39FZA	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
C3NWYA	Yfiler™									
	N/A	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	N/A	17	17	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	
CE3LHR	Yfiler™ Plus									
3sp										
CEJ84A	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19		17	17			
							23		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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 3sp - YSTR Results										
CGMDUU	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3sp		15	12	11	19		17			
							23			12
CN8XRM	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp		15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23			12
DNMHCK	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3sp		15	12	11	19		17	17		
							23			12
DR8WV7	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
3sp		15	12	11	19		17	17		22
		12	11	19	19		23	11	12	
E8W2J9	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
3sp		15	12	11	19		17	17		22
		12	11	19	19		23	11	12	
ERHTMB	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
3sp		15	12	11	19		17	17		22
		12	11	19	19		23	11	12	
EWFCPA	Yfiler™									
	-	15	11,14	13	29	25	11	13	13	
3sp		15	12	11	19	-	17	17	-	-
	-	-	-	-	-	-	23	-	-	12
FE8M2B	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
3sp		15	12	11	19		17	17		22
		12	11	19	19		23	11	12	
FQ4NK7	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3sp		15	12	11	19		17	17		
							23			12
G2EKX9	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
3sp		15	12	11	19		17	17		22
		12	11	19	19		23	11	12	
GDWVKJ	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp		15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23			12
GGEKA4	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3sp		15	12	11	19		17	17		
							23			12

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 3sp - YSTR Results										
GUEQVL	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
GVANE9	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	
GXGYDX	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
H39XDR	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19		17	17			
							23		12	
H8ZT4K	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
HJX4LK	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
J7NDAJ	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12	NT	19	19	20	23	NT	12	
K7329P	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
KJQ4RH	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
KM62WJ	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
MACTYL	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19		17	17			
							23		12	
MCX34Z	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19		17	17			
							23		12	

TABLE 2

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

Item 3sp - YSTR Results

MKV3MF	Yfiler™ Plus								
3sp									
MP6NRZ	Yfiler™								
3sp	15	12	11,14	13	29	25	11	13	13
							23		12
MVBMVX	Yfiler™ Plus								
3sp	35,36	15	11,14	13	29	25	11	13	13
	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
P2QE9L	Yfiler™								
3sp	15	12	11,14	13	29	25	11	13	13
							23		12
P7L7GH	Yfiler™								
3sp	15	12	11,14	13	29	25	11	13	13
							23		12
PD7WUK	Yfiler™ Plus								
3sp	35,36	15	11,14	13	29	25	11	13	13
	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
PHX73X	PowerPlex® Y 23								
3sp	15	12	11,14	13	29	25	11	13	13
							23		22
		12	11	19	19			11	12
PNNEQX	Yfiler™								
3sp	15	12	11,14	13	29	25	11	13	13
							23		12
PYKKHB	Yfiler™ Plus								
3sp	35,36	15	11,14	13	29	25	11	13	13
	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
QC3UHL	PowerPlex® Y 23								
3sp	15	12	11,14	13	29	25	11	13	13
							23		22
		12	11	19	19			11	12
QHCPMV	Yfiler™ Plus								
3sp	35,36	15	11,14	13	29	25	11	13	13
	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
QHXPXT	PowerPlex® Y 23								
3sp	15	12	11,14	13	29	25	11	13	13
							23		22
		12	11	19	19			11	12

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3sp - YSTR Results									
QYEPCA	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3sp	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
R47NBH	Yfiler™								
		15	11,14	13	29	25	11	13	13
3sp	15	12	11	19		17	17		
							23		12
RBPGFA	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3sp	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
RQ6KYJ	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3sp	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
T48BGH	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3sp	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
T8L9LJ	PowerPlex® Y 23								
		15	11,14	13	29	25	11	13	13
3sp	15	12	11	19		17	17		22
		12	11	19	19		23	11	12
TAE8AB	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3sp	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
TB4AMX	PowerPlex® Y 23								
		15	11,14	13	29	25	11	13	13
3sp	15	12	11	19		17	17		22
		12	11	19	19		23	11	12
TMZ9HA	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3sp	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
TRRJT9	Yfiler™ Plus								
	35,36	15	11,14	13	29	25	11	13	13
3sp	15	12	11	19	29	17	17	11	22
	37	12		19	19	20	23		12
U2R2PA	Yfiler™ Plus								
3sp									
U4GUHQ	Yfiler™								
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3sp	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 3sp - YSTR Results										
UATNVB	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
UBY7T7	Yfiler™									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
VALVFZ	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19		17	17			
							23		12	
VKZMQ8	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
VTFTF7	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
VTZ89Q	Yfiler™									
	N/A	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	N/A	17	17	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	
WM7XCW	Yfiler™									
	-	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	-	17	17	-	-	
	-	-	-	-	-	-	23	-	12	
X94LFX	PowerPlex® Y 23									
		15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19		17	17		22	
		12	11	19	19		23	11	12	
XFMREQ	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19		17	17			
							23		12	
XRJHQ	Yfiler™									
	-	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	-	17	17	-	-	
	-	-	-	-	-	-	23	-	12	
XXKJ6B	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19		17	17			
							23		12	
Y8PJ6J	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19		17	17			
							23		12	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 3sp - YSTR Results										
YFWFTM	Yfiler™									
	N/A	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	N/A	17	17	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	
YL7CXW	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
Z7MBEB	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
ZCGFG9	Yfiler™									
		15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19		17	17			
							23		12	
ZUY8BK	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	
ZV7N6A	Yfiler™ Plus									
	35,36	15	11,14	13	29	25	11	13	13	
3sp	15	12	11	19	29	17	17	11	22	
	37	12		19	19	20	23		12	

TABLE 2

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

Item 4 - YSTR Results

3R2FBJ	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
4FE37K	PowerPlex® Y 23								
	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
98BFNV	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
9DFB9V	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
AHTB6M	Yfiler™								
4									
APQ7ZY	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
C39FZA	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
GDWXKJ	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
GGEKA4	Yfiler™								
4									
H39XDR	Yfiler™								
4									
K7329P	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
KJQ4RH	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

TABLE 2

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

Item 4 - YSTR Results

MP6NRZ	Yfiler™								
4		NA	NA	NA	NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA	NA	NA	NA
MVBMVX	Yfiler™ Plus								
4		NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
PD7WUK	Yfiler™ Plus								
4		NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
PNNEQX	Yfiler™								
4		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
PYKKBH	Yfiler™ Plus								
4		NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
QC3UHL	PowerPlex® Y 23								
4		Neg	Neg	Neg	Neg	Neg	Neg	Neg	Neg
		Neg	Neg	Neg	Neg	Neg	Neg	Neg	Neg
		Neg	Neg	Neg	Neg	Neg	Neg	Neg	Neg
QHCPMV	Yfiler™ Plus								
4		No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
		No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
		No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
QYEPCA	Yfiler™ Plus								
4		NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
RBPGFA	Yfiler™ Plus								
4		NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
T8L9LJ	PowerPlex® Y 23								
4									
TRRJT9	Yfiler™ Plus								
4		NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
UBY7T7									
4		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								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 4 - YSTR Results

WebCode	Amplification Kit	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
WM7XCW	Yfiler™	-	-	-	-	-	-	-	-	-
4		-	-	-	-	-	-	-	-	-
YL7CXW	Yfiler™ Plus	NR	NR	NR	NR	NR	NR	NR	NR	NR
4		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	Y GATA H4

Item 4e - YSTR Results

DNMHCK Yfiler™

4e 

TABLE 2

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

Item 4sp - YSTR Results

DNMHCK Yfiler™

4sp



Additional DNA Results

TABLE 3

Locus	WebCode	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4	Item 4e	Item 4sp
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No additional DNA results were reported for release.

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
2C8TAX	Yes	Yes	Yes	No	6NE3HC	Yes	Yes	Yes	No
2G68WM	Yes	Yes	Yes	No	6RRF8L	Yes	Yes	Yes	No
2LG6HN	Yes	Yes	Yes		6XHR8N	Yes	Yes	Yes	No
2LJPCJ	Yes	Yes	Yes	No	6XXCQL	Yes	Yes	Yes	No
2XD4FM	Yes	Yes	Yes	No	76DFQD	Yes	Yes	Yes	No
3BW9ZN	Yes	Yes	Yes	No	7AQXTA	Yes	Yes	Yes	No
3HR9BA	Yes	Yes	Yes	No	7BZ39J	Yes	Yes	Yes	No
3J86P8	Yes	Yes	Yes	No	7GNMCZ	Yes	Yes	Yes	No
3NFV7F	Yes	Yes	Yes	No	7MFUU9	Yes	Yes	Yes	No
3R2FBJ	Yes	Yes	Yes	No	7QE9HX	Yes	Yes	Yes	No
3U9VKB	Yes	Yes	Yes	No	7RLPD9	Yes	Yes	Yes	No
3WEFAW	Yes	Yes	Yes	No	7XVLHH	Yes	Yes	Yes	No
43FWJG	Yes	Yes	Yes	No	7YABJA	Yes	Yes	Yes	No
4BNNLJ	Yes	Yes	Yes	No	84F2NZ	Yes	Yes	Yes	No
4CHC7Z	Yes	Yes	Yes	No	89UCN3	Yes	Yes	Yes	No
4FE37K	Yes	Yes	Yes	No	8AK3MA	Yes	Yes	Yes	No
4X2E4K	Yes	Yes	Yes	No	8L4E6D	Yes	Yes	Yes	No
6CJY77	Yes	Yes	Yes	No	93YLBB	Yes	Yes	Yes	No
6DWZ67	Yes	Yes	Yes	No	96B7HZ	Yes	Yes	Yes	No
6HNXGV	No Interpretations Reported, DNA Analyzed for Database purposes only.				98BFNV	Yes	Yes	Yes	No
6L49UZ	Yes	Yes	Yes	No	9DFB9V	Yes	Yes	Yes	No
6MYFPJ	Yes	Yes	Yes	No	9TEZMF	Yes	Yes	Yes	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
A2LELM	Yes	Yes	Yes	No	EKK42Z	Yes	Yes	Yes	No
AFLYLZ	Yes	Yes	Yes	No	ERHTMB	Yes	Yes	Yes	No
AHTB6M	Yes	Yes	Yes	No	EWFCPA	Yes	Yes	Yes	No
APQ7ZY	Yes	Yes	Yes	No	FE8M2B	Yes	Yes	Yes	No
AWMZXY	Yes	Yes	Yes	No	FJ7WFJ	Yes	Yes	Yes	No
B3TWHX	Yes	Yes	Yes	No	FPUJ94	Yes	Yes	Yes	No
BDP3AB	Yes	Yes	Yes	No	FQ4NK7	Yes	Yes	Yes	No
BHNNCR	Yes	Yes	Yes	No	G2EKX9	Yes	Yes	Yes	No
BL97KJ	Yes	Yes	Yes	No	GDW XKJ	Yes	Yes	Yes	No
BUG8QX	Yes	Yes	Yes	No	GGEKA4	Yes	Yes	Yes	No
C39FZA	Yes	Yes	Yes	No	GKURFW	Yes	Yes	Yes	No
C3NWYA	Yes	Yes	Yes	No	GRQMDV	Yes	Yes	Yes	No
CE3LHR	Yes	Yes	Yes	No	GUEQVL	Yes	Yes	Yes	No
CEJ84A	Yes	Yes	Yes	No	GVANE9	Yes	Yes	Yes	No
CGMDUU	Yes	Yes	Yes	No	GXGYDX	Yes	Yes	Yes	No
CJVG N7	Yes	Yes	Yes	No	H39XDR	Yes	Yes	Yes	No
CN8XRM	Yes	Yes	Yes	No	H8ZT4K	Yes	Yes	Yes	No
CT4Z3V	Yes	Yes	Yes	No	HEJQGR	Yes	Yes	Yes	No
DNMHCK	Yes	Yes	Yes	No	HJX4LK	Yes	Yes	Yes	No
DR8WW7	Yes	Yes	Yes	No	HQDEN8	Yes	Yes	Yes	No
DTX6WU	Yes	Yes	Yes	No	J7NDAJ	Yes	Yes	Yes	No
E8W2J9	Yes	Yes	Yes	No	JHJ2CR	No Interpretations Reported, DNA Analyzed for Database purposes only.			
EBVF8X	Yes	Yes	Yes	No	K3K2TA	Yes	Yes	Yes	No
EHDL8B	Yes	Yes	Yes	No	K7329P	Yes	Yes	Yes	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
K9ALV6	Yes	Yes	Yes	No	PN4X9A	No	Yes	Yes	No
KDEHE6	Yes	Yes	Yes	No	PNNEQX	Yes	Yes	Yes	No
KDG8M9	Yes	Yes	Yes	No	PYKKHB	Yes	Yes	Yes	No
KJQ4RH	Yes	Yes	Yes	No	QAY94E	Yes	Yes	Yes	No
KM62WJ	Yes	Yes	Yes	No	QC3UHL	Yes	Yes	Yes	No
KV2XKM	Yes	Yes	Yes	No	QHCPMV	Yes	Yes	Yes	No
KZBUNW	Yes	Yes	Yes	No	QHT26Z	Yes	Yes	Yes	No
L94P2K	Yes	Yes	Yes	No	QHXPXT	Yes	Yes	Yes	No
LRG9V3	Yes	Yes	Yes	No	QWQNFF	Yes	Yes	Yes	No
MACTYL	Yes	Yes	Yes	No	QYEPCA	Yes	Yes	Yes	No
MCX34Z	Yes	Yes	Yes	No	R47NBH	Yes	Yes	Yes	No
MEQ84F	Yes	Yes	Yes	No	RBPGFA	Yes	Yes	Yes	No
MKV3MF	Yes	Yes	Yes	No	RQ6KYJ	Yes	Yes	Yes	No
MP6NRZ	Yes	Yes	Yes	No	RU6T8Z	Yes	Yes	Yes	No
MVBMVX	Yes	Yes	Yes	No	T48BGH	Yes	Yes	Yes	No
MYA9YE	Yes	Yes	Yes	No	T6FLBZ	Yes	Yes	Yes	No
N76TDF	Yes	Yes	Yes	No	T8L9LJ	Yes	Yes	Yes	No
NG37J2	Yes	Yes	Yes	No	TAE8AB	Yes	Yes	Yes	No
NZGBXH	Yes	Yes	Yes	No	TB4AMX	Yes	Yes	Yes	No
P2QE9L	Yes	Yes	Yes	No	TGW8K2	Yes	Yes	Yes	No
P7L7GH	Yes	Yes	Yes	No	TMZ9HA	Yes	Yes	Yes	No
P8HA2Z	Yes	Yes	Yes	No	TRA3KD	Yes	Yes	Yes	No
PD7WUK	Yes	Yes	Yes	No	TRRJT9	Yes	Yes	Yes	No
PHX73X	Yes	Yes	Yes	No	TZ9WVD	Yes	Yes	Yes	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
U2R2PA	Yes	Yes	Yes	No	XJZUYZ	Yes	Yes	Yes	No
U4GUHQ	Yes	Yes	Yes	No	XRJHQ	Yes	Yes	Yes	No
U7LXCE	Yes	Yes	Yes	No	XU7GAL	Yes	Yes	Yes	No
U8YYBU	Yes	Yes	Yes	No	XVC2XL	Yes	Yes	Yes	No
UATNVB	Yes	Yes	Yes	No	XXKJ6B	Yes	Yes	Yes	No
UBY7T7	Yes	Yes	Yes	No	Y8PJ6J	Yes	Yes	Yes	No
UMUG2D	Yes	Yes	Yes	No	Y9J8PZ	Yes	Yes	Yes	No
UT6D7M	Yes	Yes	Yes	No	YFWFTM	Yes	Yes	Yes	No
VALVFZ	Yes	Yes	Yes	No	YL7CXW	Yes	Yes	Yes	No
VG443B	Yes	Yes	Yes	No	YTKTC4	Yes	Yes	Yes	No
VKZMQ8	Yes	Yes	Yes	No	Z7MBEB	Yes	Yes	Yes	No
VTFTF7	Yes	Yes	Yes	No	ZCGFG9	Yes	Yes	Yes	No
VTZ89Q	Yes	Yes	Yes	No	ZKUYZ	Yes	Yes	Yes	No
W927EC	No Interp	No Interp	No Interp	No Interp	ZNRKHG	Yes	Yes	Yes	No
WFLALE	No Interpretations Reported, DNA Analyzed for Database purposes only.				ZUWG2G	Yes	Yes	Yes	No
WLWNJZ	Yes	Yes	Yes	No	ZUY8BK	Yes	Yes	Yes	No
WM3BUJ	Yes	Yes	Yes	No	ZV7N6A	Yes	Yes	Yes	No
WM7XCW	Yes	Yes	Yes	No					
WWDZPM	Yes	Yes	Yes	No					
WZCQ4A	Yes	Yes	Yes	No					
X8PQKB	Yes	Yes	Yes	No					
X94LFX	Yes	Yes	Yes	No					
XFMREQ	Yes	Yes	Yes	No					
XHTEQA	Yes	Yes	Yes	No					

DNA Interpretation**Response Summary****Participants reporting DNA results: 181**

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	176	177	177	0
No	1	0	0	176
Inc	0	0	0	0
No Interpretation	1	1	1	1
No Response	0	0	0	1

Participants analyzing DNA for database purposes only: 3

Additional Comments

TABLE 5

WebCode	Additional Comments
2C8TAX	Probabilistic genotyping (STRmix) was used for data analysis with stutter unfiltered. All alleles deemed possible for any contributor to the mixture has been reported. With probabilistic genotyping, stutter alleles are considered as either allelic or stutter during the deconvolution of samples. Sometimes, this results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the result.
2G68WM	Extraction: (i) Item 1, Item 2, and Item 4 were extracted using chelex extraction method. (ii) Item 3 was extracted using differential extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using ABI Quantifiler Human DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: (i) Item 1, Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Identifiler Plus PCR Amplification Kit on ABI GeneAmp PCR System 9700. (ii) Item 2 and Item 3 were amplified using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: (i) Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4 (Identifiler Plus Kit). (ii) Electrophoresis were carried out on ABI 3130xL Genetic Analyzer for Item 2 and Item 3 (Y-Filer Kit). Quality Control: Reagent Blank, Positive Control and Negative Control were carried out along through analysis and all gave intended results.
2XD4FM	1. Item 1 to Item 4 were extracted using Chelex method. 2. All of them were quantified using Quantifiler Human DNA Quantitation Kit on Real Time PCR 7500 system. 3. Amplification of STR genetic loci was carried out using the AmpFISTR Identifiler Plus amplification kit. 4. Amplification of Y-STR genetic loci was carried out using AmpFISTR Y-Filer PCR amplification kit. 5. Electrophoresis was carried out on GA3130xL and analysed by GeneMapper ID v3.2.1 software. 6. Reagent blank, positive control and negative control were inserted along with the analysis and all gave the expected result.
3R2FBJ	NR= No Results
3WEFAW	Spermatozoa were observed by microscopic examination of the sperm cell fraction of sample 3.
4CHC7Z	NA=not applicable
4X2E4K	Extraction: (i) Item 1 and Item 2 were extracted using chelex extraction method. (ii) Item 3 was extracted using differential extraction method. (iii) Item 4 was extracted using Promega DNA IQ Kit on Tecan Freedom Evo 150 Robotic Liquid Handler. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using ABI Quantifiler Human DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: (i) Item 1, Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Identifiler Plus PCR Amplification Kit on ABI GeneAmp PCR System 9700. (ii) Item 2 and Item 3 were amplified using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: (i) Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4 (Identifiler Plus Kit). (ii) Electrophoresis were carried out on ABI 3130xL Genetic Analyzer for Item 2 and Item 3 (Y-Filer Kit). Quality Control: Reagent Blank, Positive Control and Negative Control were carried out along through analysis and all gave intended results.
6L49UZ	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. Additionally, the reported results of the non-sperm fraction of Item 3 is based upon conditioning on the victim (Item 1). Sperm cells were observed upon microscopic examination of Item 3.
6NE3HC	For the item 3, the suspect profile corresponds to the majority profile and the victim profile corresponds to the minority profile. The suspect profile is complete in the mix (item 3).
7QE9HX	NR = No Results
98BFNV	NR = No Results
9DFB9V	NR = No Result
A2LELM	Spermatozoa were detected on the microscopic slide made from item 3

TABLE 5

WebCode	Additional Comments
AHTB6M	Regarding STR Amplification: In the event that no allele(s) were detected at a the DYS391 locus, the locus was left blank (e.g., DYS391 for the victim). Regarding YSTR Amplification: In the event that no YSTR profile was obtained for an item (e.g., item 1: known blood stain from the female victim), all loci in the DNA profile were left blank. Spermatozoa were detected on the slide prepared from item 3.
BDP3AB	Y-STR analysis was not performed on sample 1 and sample 4 because no male DNA was detected using Quantifiler Trio.
BHNNCR	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.
BL97KJ	Markers with empty boxes indicate that no experiment was performed. Markers filled with a single dash "-" indicate that no alleles resulted. The likely minor alleles were enclosed with brackets "[]". The mixture interpretation threshold used for analysis was 175 RFU.
C39FZA	No Y-STR DNA analysis performed on item 1. NA = Not Analyzed. No Y-STR DNA profile was obtained from item 4. NR = No Results
C3NWYA	INC - INCONCLUSIVE. ITEM #4 WAS AMPLIFIED TWICE DUE TO PARTIAL PROFILE WAS OBTAINED THE FIRST TIME. AT THE SECOND AMPLIFICATION A FULL PROFILE WAS OBTAINED, HOWEVER MARKER D12S391 SHOWED A PEAK IMBALANCE LESS THAN 50%, BUT THE FIRST AMPLIFICATION THIS WAS IN BALANCE OBTAINING ALLELE CALLS 17,24 FOR THIS MARKER.
CE3LHR	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. One DNA type (17 at D3S1358) was detected during analysis of the sperm fraction reagent blank. The interpretation of the associated evidence samples were not affected.
CEJ84A	Y-STR analysis was not performed on Item 1 and 4 because no male DNA was detected using Quantifiler Trio.
DNMHCK	As part of the differential extraction process of Item 3, spermatozoa were observed.
DTX6WU	Per casework, all sexual assault samples are to have a differential separation performed. For this reason, a differential separation was performed on Item 4 (question blood stain from suspect's shirt). The sperm fraction of Item 4 had an insufficient amount of DNA at Quant; therefore, it was not taken forward. No results were reported for that fraction.
EHD18B	Peaks detected between Analytical and Stochastic thresholds are designated with parenthesis {e.g. (11)}. Peaks detected between Stochastic and Mixture thresholds are designated with single quotation {e.g. '11'}. A primary contributor was determined for the e.cell fraction of Item 3 was determined at the following loci: D3S1358, vWA, D16S539, CSF1PO, TPOX, D8S1179, D21S11, D18S51, D2S441, D19S433, TH01, FGA, D22S1045, D5S818, D13S317, D7S820, SE33, D10S1248, D1S1656, D12S391 and D2S1338.
EWFCPA	Extraction: Item 1, Item 2, and Item 4 were extracted using chelex extraction method. Item 3 was extracted using differential extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using ABI Quantifiler Human DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Identifiler Plus PCR Amplification Kit on ABI GeneAmp PCR System 9700. Item 2 and Item 3 were amplified using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4 (Identifiler Plus Kit). Electrophoresis were carried out on ABI 3130xL Genetic Analyzer for Item 2 and Item 3 (Y-Filer Kit). Quality Control: Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
FE8M2B	Because the piece of cloth of item 4 was lifted from the clothes of the accused, the search for his profile was not carried out.

TABLE 5

WebCode	Additional Comments
FJ7WFJ	Spermatozoa were detected in item 3 by microscopic examination.
FQ4NK7	YFiler was not conducted on items 1 and 4 after Quant Trio results indicated no male DNA. Weak alleles are denoted in brackets. Statistical calculations were conducted for items 3 and 4.
GDW XKJ	NR = No Results
GUEQVL	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. Additionally - For the non-sperm fraction for Item 3, no DNA types were detected at DYS391. This is acceptable, as the male contributor in the mixture was low level and the presence of dropout was taken into account across the whole mixture.
HJX4LK	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.
J7NDAJ	NT = not tested. NR = no results
K3K2TA	The genetic profile of item (1) refers to single female (victim); The genetic profile of item (2) refers to single male (suspect); Differential extraction was performed on item (3). The genetic profile of the sperm refers to single male (suspect); The genetic profile of the blood on item (4) refers to single female (victim)
K7329P	NR = no results
KDG8M9	For the sperm fraction of Item 3, there were additional alleles at two loci (D3S1358 and D16S539). These alleles are by laboratory policy too limited to make comparisons (additional information at less than 5 loci) and are in artifact positions.
KJQ4RH	NR=No Results
MCX34Z	a) Chelex extraction method was used to extract DNA from Item 1,2,3 and 4. b) DNA quantitation was carried out using the Quantifiler Human DNA Quantification kit with Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 system. c) Amplification of STR (Short Tandem Repeat) genetic loci was carried out using the AmpFISTR Identifiler Plus PCR Amplification kit. d) Amplification of Y-STR (Y-Short Tandem Repeat) genetic loci was carried out using the AmpFISTR Y-filer PCR Amplification kit. e) Capillary electrophoresis was carried out using the Applied Biosystems 3500xl Genetic Analyzer with GeneMapper ID Software. f) Reagent blank, positive control and negative control were carried out throughout the analysis.
MEQ84F	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. 3-NS was conditioned on the victim
MKV3MF	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.
MVBMVX	NR = No Results. Item 1 not analyzed for Y-STR.
MYA9YE	ND = no DNA detected. Note: For Item 3EC (epithelial fraction), the minor is the deduced male profile.

TABLE 5

WebCode	Additional Comments
N76TDF	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.
NG37J2	1. The Item 3 sample presents two genetic profiles indicating the presence of two biological sources; one male and one female: a) The masculine fraction of Item 3, presents a genetic profile matching the profile of the sample Item 2 (suspect). b) The epithelial fraction presents a mixed genetic profile, where the contribution of the genetic profile obtained in the male fraction is observed, and of a second female genetic profile, which has been inferred by deconvolution of the mixture (Item 3-FE), which matches the profile of the victim (Item 1). 2. In addition, in the analysis of the Y chromosome markers, the Item 2 (suspect) sample has a genetic profile or haplotype that matches the genetic profile or haplotype found in the Item 3 sample, therefore, it is not possible to exclude the suspect (or a relative of paternal line of the suspect), as a contributor to the evidence. 3. According to the results, the Item 4 sample presents a genetic profile that matches all the genetic markers analyzed with the genetic profile of the Item 1 (Victim) sample.
P7L7GH	No male DNA detected for Item 1 and Item 4.
P8HA2Z	Item 3 was submitted for both semen extraction and blood extraction. We obtained two separate profiles. The semen matches that of Item 2 (male suspect) and the blood is a mixture DNA profile of both Item 1 (female victim) and Item 2 (male suspect).
PD7WUK	NR = No Results
PN4X9A	Victim excluded as primary male contributor to the E cell fraction of Item 3 and as the single source male sperm fraction. The minor/mixture to the E cell fraction in Item 3 is unsuitable for comparison. No conclusions can be made.
PNNEQX	Multiplex PCR amplifications were performed on the Organic @ Phenol/Chloroform (Item 1, Item 2, Item 3 and Item 4) extracted DNA samples using the Applied Biosystems AmpFISTR® Identifiler® Plus (STR) and Yfiler® (YSTR) amplification kits. Separation and detection of the amplified products were carried out using the Applied Biosystems 3500XL Genetic Analyzer and the data was analysed with GeneMapper® ID-X v1.5 software.
PYKKHB	NR= No Results
QAY94E	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. The results for 3_NS (epithelial fraction) are conditioned on the profile from the victim (Sample 1).
QHCPMV	Item 1: since sample is a female known, no Y-STR DNA testing was performed on that item.
QHT26Z	Item 3: LR calculated by LRmixStudio. Item 1 + 1 unk vs 2 unk (d.o.=0.1) = 2.03e+12; Item 2 + 1 unk vs 2 unk (d.o.=0.12) = 3.82e+13; Item 1 + Item 2 vs Item 1 + 1 unk (d.o. = 0.18) = 4,099e+18. Item 4: RMP calculate by Familias3 = 1.71e+33
QYEPCA	NR = No Results
RBPGFA	NR = NO RESULTS
RU6T8Z	DNA extraction, quantification, amplification, separation, and data analysis performed by test taker, [Name]. DNA analysis, interpretation, reporting writing and statistical analysis performed by test taker, [Name].

TABLE 5

WebCode	Additional Comments
TAE8AB	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.
TMZ9HA	NR = No results
TRRJT9	NR = No Results
U2R2PA	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.
U4GUHQ	ITEM #3 sperm fraction, was not submitted to Yfiler analysis according to our SOP's [Laboratory]-1220-LAB and [Laboratory]-1221-LAB.
UATNVB	NR = No results
UBY7T7	NR = no results
VKZMQ8	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.
VTFTF7	NR= no results
W927EC	The DNA Analyst is only proficient in extraction of non-differential samples and analysis of known standards.
WWDZPM	One additional peak not attributable to the suspect was present at D16 in the sperm fraction of Item 3. This allele is in an after stutter position as follows: 13 (6160RFU), 14 (4943RFU), 15 (257RFU). This peak is a low level peak (above the 225RFU threshold), is not attributable to either the suspect or the victim and is the only indication of a second contributor, therefore is most likely elevated after stutter.
XFMREQ	Items 1, 2 and 4 were extracted by using Automate Express™ Forensic DNA Extraction System with PrepFiler Express™ Kit. Item 3 was extracted by using organic extraction. Extracted DNA samples were amplified using Applied Biosystems AmpFISTR Identifiler Plus (STR) and Y-Filer (STR) Kits. Separation and detection of amplified products were performed using Applied Biosystems 3500xL Genetic Analyzer and analysis was carried out by GeneMapper ID-X Software v1.5.
XJZUYZ	Spermatozoa were detected upon microscopic examination of sample 3 male fraction.
XRJHQ	Extraction: Item 1, Item 2 and Item 4 were extracted by Chelex extraction method. Item 3 was extracted using differential extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification Kit on QuantStudio 5 Real-Time PCR System. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using AMPFLSTR Identifiler Plus Kit on 9700 GeneAmp PCR System. Item 2 and Item 3 were amplified using AMPFLSTR Y-Filer Kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis were carried out on Genetic Analyzer 3500xl for Item 1, Item 2, Item 3 and Item 4 (Identifiler Plus). Electrophoresis were carried out on Genetic Analyzer 3130xl for Item 2 and Item 3 (Yfiler). Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
Y9J8PZ	Spermatozoa were observed upon examination in sample 3.1 male fraction.
YL7CXW	NR = No results

TABLE 5

WebCode	Additional Comments
YTKTC4	Sperm cells were found on Item 3. 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.
ZCGFG9	The DYS391 locus results in YFiler did not upload for Item 2 and Item 3 when using the direct DNA data upload function. This seems odd as it is a Y result despite being recorded in the GloberFiler results. It should be uploaded in both kits. I have recorded these results manually.
ZKUITYZ	Spermatozoa observed in differential slide for item 3

-End of Report-
(Appendix may follow)

Appendix: Data Sheet

Collaborative Testing Services ~ Forensic Testing Program

Test No. 18-5804: DNA-Semen

DATA MUST BE RECEIVED BY September 3, 2018 TO BE INCLUDED IN THE REPORT

Participant Code:

WebCode:

Accreditation Release Statement

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

- This participant's data is intended for submission to ASCLD/LAB, ANAB, and/or A2LA. (Accreditation Release section on the last page must be completed and submitted.)
- This participant's data is **NOT** intended for submission to ASCLD/LAB, ANAB or A2LA.

Scenario:

Police are investigating the sexual assault of a female victim. The victim reported that while she was walking back to her apartment at night, a male suspect forced her to the ground and proceeded to sexually assault her. Officers reviewed the security footage from her apartment complex and a suspect was soon identified and apprehended. Investigators are submitting a stain from the pants (Item 3) collected from the victim and a stain from the shirt (Item 4) collected from the suspect. Screening has been performed on both samples with the following results: Item 3 (victim's pants) is positive for blood and semen, and Item 4 (suspect's shirt) is positive for blood. The screening lab is submitting these samples (Items 3 and 4) along with known blood samples from the female victim and male suspect.

Items Submitted (Sample Pack S4):

- Item 1: Known blood from the female victim
- Item 2: Known blood from the male suspect
- Item 3: Questioned blood and semen mixture from victim's pants (brown)
- Item 4: Questioned blood stain from suspect's shirt (off-white)

Please return all pages of this data sheet.

Page 1 of 8

Part I: DNA ANALYSIS

DNA Analysis Instructions:

Use the instructions below to complete the following DNA Analysis sections of this data sheet.

- * Report alleles in numerical order, separated by a comma.
- * Follow your laboratory policy for reporting homozygotes.
- * If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [].
- * Stains with more than one contributor: If a differential extraction is performed, split the box with a horizontal line and report the results of the different fractions above and below the line - indicate which is the sperm fraction (sp) and which is the epithelial fraction (e) (Example A); otherwise, list the alleles in numerical order (Example B).

Example	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043	
A	<i>e</i>	10,11	15,16	8	12,13	7	8
	<i>sp</i>	12,13	15,17	8,17	11	14,15	11,13
B	[10],[11],12,13	15,[16],17	8,17	[11],12,13	7,14,15	8,11,13	

****Please note Data Sheet Changes****

Reporting of YSTR alleles generated from primarily autosomal STR multiplex systems.

- 1) The YSTR loci commonly generated using STR multiplex systems are now included in the STR section. (DYS391, DYS570, DYS576, Y Indel)
- 2) There is no longer a need to transcribe YSTR results from STR multiplex systems to the YSTR section.

For probabilistic genotyping software, a text field has been added directly below the amplification kit section for each item to capture which software was used.

Additional DNA Results:

Please use the section below to report results only for loci not available on the following pages.

	Item 1	Item 2	Item 3	Item 4
_____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
_____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
_____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
_____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please return all pages of this data sheet.

Part I (continued): DNA Results for Known Item 1

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): _____

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

YSTR 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. Plus, 23, etc.).

Yfiler™ _____
 PowerPlex® Y _____
 Other _____

ITEM	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please return all pages of this data sheet.

Part I (continued): DNA Results for Known Item 2

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): _____

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

YSTR 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. Plus, 23, etc.).

Yfiler™ _____
 PowerPlex® Y _____
 Other _____

ITEM	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please return all pages of this data sheet.

Page 4 of 8

Part I (continued): DNA Results for Questioned Item 3

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): _____

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

YSTR 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. Plus, 23, etc.).

Yfiler™ _____
 PowerPlex® Y _____
 Other _____

ITEM	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please return all pages of this data sheet.

Part I (continued): DNA Results for Questioned Item 4

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): _____

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

YSTR 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. Plus, 23, etc.).

Yfiler™ _____
 PowerPlex® Y _____
 Other _____

ITEM	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
ITEM	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please return all pages of this data sheet.

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="checkbox"/>	<input type="checkbox"/>	Yes <input type="checkbox"/>	<input type="checkbox"/>
No <input type="checkbox"/>	<input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>
Inconclusive <input type="checkbox"/>	<input type="checkbox"/>	Inconclusive <input type="checkbox"/>	<input type="checkbox"/>
No Interpretation <input type="checkbox"/>	<input type="checkbox"/>	No Interpretation <input type="checkbox"/>	<input type="checkbox"/>

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

Part III: ADDITIONAL COMMENTS

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 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.

Return Instructions: Data must be received via online data entry, fax (please include a cover sheet), or mail by <i>September 03, 2018</i> to be included in the report. Emailed data sheets are not accepted.		ONLINE DATA ENTRY: www.cts-portal.com
QUESTIONS?		FAX: +1-571-434-1937
TEL: +1-571-434-1925 (8 am - 4:30 pm EST)		MAIL: Collaborative Testing Services, Inc.
EMAIL: forensics@cts-interlab.com		P.O. Box 650820
www.ctsforensics.com		Sterling, VA 20165-0820 USA

Please return all pages of this data sheet.

Collaborative Testing Services - Forensic Testing Program

RELEASE OF DATA TO ACCREDITATION BODIES

The following Accreditation Releases will apply only to:

Participant Code:

WebCode:

for Test No. **18-5804: DNA-Semen**

This release page must be completed and received by **September 3, 2018** to have this participant's submitted data included in the reports forwarded to the respective Accreditation Bodies.

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

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

ANAB Certificate No. _____

(Include ASCLD/LAB Certificate here)

A2LA Certificate No. _____

Step 2: Complete the Laboratory Identifying Information in its entirety

Signature and Title _____

Laboratory Name _____

Location (City/State) _____

Accreditation Release

Return Instructions

Please submit the completed Accreditation Release at the same time as your full data sheet. See Data Sheet Return Instructions on the previous page.

*Questions? Contact us 8 am-4:30 pm EST
Telephone: +1-571-434-1925
email: forensics@cts-interlab.com*

Please return all pages of this data sheet.

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