



DNA-Mixture Test No. 20-5806

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 202 participants and are compiled into the following tables:

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

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

Manufacturer's Information

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

SAMPLE PREPARATION: The stains in Items 1, 2, and 3 were prepared using human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. Items 1 (75 μ l) and 3 (50 μ l) were created using the same female donor. Item 2 (75 μ l) was created using a male donor. The stain in Item 4 (50 μ l) was a mixture prepared from human whole blood from the Item 1 female and semen from a male donor whose known standard was not provided. The semen was first thawed and mixed 1:1 with TAE buffer, then mixed 1:1 with the blood. 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 October 22, 2020 following receipt of predistribution results.

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

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

Manufacturer's Information, continued

Amelogenin and STR Results						
<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	16,17.3	19,24	14,14	17,18	10,12	*
	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NM	NM	NM	NM	
2	17.3,17.3	17,17	10,14	15,15	7,9	*
	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9	28.2,28.2	6,9	8,8
	15,19	10	18	17	2	
3	16,17.3	19,24	14,14	17,18	10,12	*
	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NM	NM	NM	NM	
4-Blood	16,17.3	19,24	14,14	17,18	10,12	*
	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NM	NM	NM	NM	
4-Semen	13,15	19,20	10,11	14,15	11,12	*
	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16	14,26.2	9,9	8,8
	17,17	11	19	16	2	

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	38,38	14	13,18	13	30	23	10	11	12
	14	10	11	19	26	15	18.2	11	26
	40	12	13	18	17	21	20	9	11
4-Semen	37,38	16	11,14	13	30	25	11	11	13
	14	11	11	20	32	16	15	12	23
	41	12	12	19	16	17	23	10	13

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

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

Summary Comments

The DNA-Mixture test is part of the DNA Sample Specific Series, where participants are advised of the body fluid(s) that were used to 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 3 were created using blood from the same female donor. Item 2 was created using blood from a male donor. Item 4 was created using a mixture of blood from the female donor used for Item 1 and semen from a male donor whose known standard was not provided. (See Manufacturer's Information for preparation details)

Of the 202 participants that returned results, 194 reported DNA interpretations.

For the Item 3 stain, all participants that reported interpretations included the victim (Item 1) and excluded the suspect (Item 2) as a possible contributor.

For the Item 4 stain, all participants that reported interpretations included the victim (Item 1) and excluded the suspect (Item 2) as a possible contributor.

A total of 18 participants reported allelic results that differed from consensus/predistribution results for one or more items. There were nine instances of participants reporting additional alleles at one or more loci, seven instances of missing alleles, mostly within the results for Item 4 where no differential was performed, and six instances where an inconsistent allele was reported. Based on the interpretations above, these inconsistencies did not appear to affect these participants' conclusions.

A total of 53 participants reported the use of probabilistic genotyping software. Several software brands were reported by participants with the genotyping software STRmix reported most frequently.

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

2AAECE	GlobalFiler™ Express					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
<hr/>						
2ATKC6	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
<hr/>						
2B4HM2	GlobalFiler™ Direct					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
<hr/>						
2KA6V2	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
<hr/>						
2KTXNY	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
<hr/>						
2QJL6P	PowerPlex® 21 (STRmix v2.7.0)					
	16,17.3	19,24		17,18	10,12	11,21.3
1	10,12	10,13		18,20	9,11	12,12
	15,18	13,13.2	28,30		X,X	11,12
	21,22	7,10	16,19		7,8	10,11
	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

2UX64X	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
2XZ2VE	GlobalFiler™ Express					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
37NCHE	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
3EYCEB	Identifiler® Plus (in house software)					
		19,24		17,18	10,12	
1	10,12	10,13			9,11	12,12
	15,18	13,13.2	28,30		X,X	11,12
	21,22				7,8	10,11
	16,18					
3FXGXQ	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	N/A
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	N/A	N/A	16,30.2	7,8	10,11
	16,18	NSD	N/A	N/A	NSD	
3K8X6T	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
3PKFLA	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	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

3UHYQU	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
44X73N	PowerPlex® ESX16 Fast					
	16,17.3	19,24	14	17,18		
1	10,12	10,13	13,15	18,20		12
	15,18	13,13.2	28,30	15,16	X,X	
	21,22				7,8	
	16,18					
44ZZJ9	GlobalFiler™ Express					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NM			NM	
4D2KJF	GlobalFiler™ (GeneMapper ID-X v1.4)					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
4KMGPQ	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
4PH8V3	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
4PV29G	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	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

4TWRVW	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	-	-	-		
6J7JWQ	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
6J8EDC	ESI-17					
	16,17.3	19,24	14,14	17,18		
1		10,13	13,15	18,20		12,12
	15,18	13,13.2	28,30	15,16	X,X	
	21,22			16,30.2	7,8	
	16,18					
6M6VTQ	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
6M8PAB	PROMEGA ESI-17 FAST					
	16,17.3	19,24	14,14	17,18		
1		10,13	13,15	18,20		12,12
	15,18	13,13.2	28,30	15,16	X,X	
	21,22			16,30.2	7,8	
	16,18					
6NGUMZ	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
6TXYJA	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	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

7BCTTV	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
7BPM6P	PowerPlex® Fusion 6C (STRmix)					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
7H8Z7A	NGM					
	16,17.3	19,24	14,14	17,18		
1		10,13	13,15	18,20		12,12
	15,18	13,13.2	28,30	15,16	XX	
	21,22				7,8	
	16,18					
7J67PN	PowerPlex® Fusion					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18					
7LQTGC	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
7Q27YB	Identifiler® Direct					
		19,24		17,18	10,12	
1	10,12	10,13			9,11	12
	15,18	13,13.2	28,30		XX	11,12
	21,22				7,8	10,11
	16,18					
7UKXBD	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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

7WPLRN	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
7WRFA9	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
7XL23Z	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
84KBKC	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18					
88L28Q	Investigator® 24plex					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
8BRGLA	Investigator® 24plex GO!					
	16,17.3	19,24	14,14	17,18	10,12	N/A
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	N/A	N/A	16,30.2	7,8	10,11
	16,18	N/A	N/A	N/A	N/A	
8JZ9RX	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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

8KUYWD	PowerPlex® Fusion 6C, GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	Not Detected			Not Detected	
8RC8LA	Identifiler® Direct					
		19,24		17,18	10,12	
1	10,12	10,13			9,11	12
	15,18	13,13.2	28,30		X,X	11,12
	21,22				7,8	10,11
	16,18					
92WYK7	PowerPlex®					
	16,17.3	19,24	14,14	17,18		
1		10,13	13,15	18,20		12,12
	15,18	13,13.2	28,30	15,16	X,X	
	21,22			16,30.2	7,8	
	16,18					
93U44L	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
9FGDN7	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	NR				
9JC8L8	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
9KAD6M	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	No Result			No Result	

TABLE 1

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

Item 1 - STR Results

9XWMP7	GlobalFiler™ (TrueAllele)					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
9YUT8L	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
A4EGWN	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
A6PEB7	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
A7NKTk	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	No results			No results	
A9A8L9	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22			16,30.2	7,8	10,11
	16,18	---			---	
AQTZCX	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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

BF3Y88	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
CFL3F8	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
CHN3F6	Identifiler® Direct					
		19,24		17,18	10,12	
1	10,12	10,13			9,11	12
	15,18	13,13.2	28,30		X,X	11,12
	21,22				7,8	10,11
	16,18					
CHRHUQ	GlobalFiler™ Direct					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
CL9VQ8	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
CMMG3U	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
CXTYDY	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	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

D6HANR	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
DARHVN	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
DCGWD8	GlobalFiler™ Express					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
DDRX2Q	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
DE2P8L	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
DGCML4	Identifiler® Direct					
		19,24		17,18	10,12	
1	10,12	10,13			9,11	12
	15,18	13,13.2	28,30		X,X	11,12
	21,22				7,8	10,11
	16,18					
DJZYKA	PowerPlex® Fusion 5C					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	ND				

TABLE 1

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

DP7TE6	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
DQDBDZ	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	NR				
DRTAWP	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
DTTAAW	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
DVW7FT	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
DYWC2Q	GlobalFiler™ Direct					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
DZ6LPG	PowerPlex® Fusion					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	ND				

TABLE 1

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

EK74B3	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
EPZX94	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
EUG7W4	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
EV6JEL	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
FBCD7L	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
FFUFB7	PowerPlex® Fusion 6C, GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22			16,30.2	7,8	10,11
	16,18	Not detected			Not detected	
FGLCYZ	GlobalFiler™ Express					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22			16,30.2	7,8	10,11
	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

G243C2	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
G2K4CH	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
G72JNV	GlobalFiler™ (BulletProof)					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
G7ZP8B	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
GAKERN	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
GC4NKL	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
GECLAW	GlobalFiler™ (BulletProof)					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22			16,30.2	7,8	10,11
	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

GET334	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
GFBRTC	GlobalFiler™ (Genemapper)					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
GNJN93	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
GV2WWY	GlobalFiler™ CASEWORK					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
GVY3FE	PowerPlex® Fusion 5C					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	---				
GXP9V6	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
HADWXG	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	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

HDD8UG	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
HTF7PT	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	18,20	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	10,13				
J39ARY	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
J3R9QH	GlobalFiler™ Direct					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
J6YCY9	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NR			NR	
J6Z7GT	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	NR				
J79LMY	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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

JL9HRJ	GlobalFiler™ Direct					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
JMZJPU	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	N/R				
JPNVNZ	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
JYPHFW	Investigator® 24plex GOI/QS					
	16,17.3	19,24	14,14	17,18	10,12	N/A
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	N/A	N/A	16,30.2	7,8	10,11
	16,18	N/A	N/A	N/A	N/A	
JZMNYC	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
K2U37H	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	No Results	No Results	No Results		
K38WJX	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	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

K8Y8UV	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
K9WCCB	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
KB33DY	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
KE3777	Identifiler® Plus					
		19,24		17,18	10,12	
1	10,12	10,13			9,11	12,12
	15,18	13,13.2	28,30		X,X	11,12
	21,22				7,8	10,11
	16,18					
KFTCMW	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
KHGP6E	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
KKM7KX	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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

KPHVAH	PowerPlex® Fusion					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18					
KTHBDY	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18					
KWHF88	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	ND	ND	ND		
KY9LNX	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	--			--	
LD6ZNQ	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
LDG22D	PowerPlex® 5c					
	16,17.3	19,24	14	17,18	10,12	--
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19	--	7,8	10,11
	16,18	--	--	--	--	
LG8UNG	PowerPlex® Fusion					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19		7,8	10,11
	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

LMR4MD	Identifiler® Plus					
		19,24		17,18	10,12	
1	10,12	10,13			9,11	12,12
	15,18	13,13.2	28,30		X,X	11,12
	21,22				7,8	10,11
	16,18					
LR42ZR	PowerPlex® Fusion 5C					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	NR				
LWKANR	GlobalFiler™ Express					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NM			NM	
M2MXJ6	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	NA
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	NA	NA	16,30.2	7,8	10,11
	16,18	NA	NA	NA	NA	
MZB4YX	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
N4RMJT	PowerPlex® ESI17_FAST					
	16,17.3	19,24	14,14	17,18		
1		10,13	13,15	18,20		12,12
	15,18	13,13.2	28,30	15,16	X,X	
	21,22			16,30.2	7,8	
	16,18					
N686KD	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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

N7WB24	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
N7Y6HN	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	NR				
NLMF6Q	GlobalFiler™ (Genemapper ID-X)					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
NMLLN7	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
NPQBNT	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
P9ZQKE	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
PCGVGN	GlobalFiler™ Express					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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

PDAQ4W	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
Q3N3M4	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
Q3PW4N	NGM SElect					
	16,17.3	19,24	14,14	17,18		
1		10,13	13,15	18,20		12,12
	15,18	13,13.2	28,30	15,16	XX	
	21,22			16,30.2	7,8	
	16,18					
Q6F222	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	ND	ND	ND		
R94AD8	GlobalFiler™ CASEWORK					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
RCU2ZB	PowerPlex® Fusion					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18					
RDL3XL	GlobalFiler™ Express					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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

RKNC4E	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
RWFXAA	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
RYAMWC	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
RZDJYR	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
TBDAHE	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
TBTT3B	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
TLETY9	GlobalFiler™ Direct					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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

TQ74TJ	GlobalFiler™ Express					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NM			NM	
TTXZFR	GlobalFiler™ Express					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	No results			No results	
TU4HF9	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
TXP8ZL	PowerPlex® Fusion 5C					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	NR				
TYZALK	GlobalFiler™ Express					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NR			NR	
U2M9DN	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18					
UHNZD4	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	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

UP8GRZ	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
UP9B9K	PowerPlex® Fusion, GlobalFiler™ (Genemapper ID-X)					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18					
UVJ6PB	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
VE3TAM	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
VHNAT8	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
VLR229	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
VMGEJQ	PowerPlex® ESI Fast					
	16,17.3	19,24	14,14	17,18		
1		10,13	13,15	18,20		12,12
	15,18	13,13.2	28,30	15,16	X,X	
	21,22				7,8	
	16,18					

TABLE 1

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

Item 1 - STR Results

WQ4WP	GlobalFiler™ Express					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NR			NR	
VYCKEA	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
W2VYHA	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
W364WY	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	N/A
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	N/A	N/A	16,30.2	7,8	10,11
	16,18	N/A	N/A	N/A	N/A	
W38YDJ	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
WDNHXF	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,20	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
WEMNFV	Identifiler® Plus					
		19,24		17,18	10,12	
1	10,12	10,13			9,11	12,12
	15,18	13,13.2	28,30		X,X	11,12
	21,22				7,8	10,11
	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

WH29E4	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
WUA76P	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NR			NR	
WXAHPZ	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NR			NR	
X8U9ZM	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
XKHBHE	GlobalFiler™ Express					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NM			NM	
XLFF2U	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	N/A
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	N/A	N/A	16,30.2	7,8	10,11
	16,18	N/A	N/A	N/A	N/A	
XP26L8	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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

XQR4Z6	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	Not Tested
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	No Results	No Results	No Results	Not Tested	
XTZGG8	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
Y4DZCM	PowerPlex® Fusion 6C, GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	Not Detected			Not Detected	
Y7ZHU9	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
YBAVC7	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
YBW7BF	GlobalFiler™ Express					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	No results			No results	
YJPEUK	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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

YQKL7Y	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
YRY38J	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
Z26AMJ	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
Z7X8DV	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
Z9NDUL	NGM SElect Express					
	16,17.3	19,24	14,14	17,18		
1		10,13	13,15	18,20		12,12
	15,18	13,13.2	28,30	15,16	X,X	
	21,22			16,30.2	7,8	
	16,18					
ZAYFFK	GlobalFiler™ Express					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	No Results			No Results	
ZB9KVU	PowerPlex® Fusion					
	16,17.3	19,24	14,14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19		7,8	10,11
	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

ZDXQCK	GlobalFiler™ Express					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	No results			No results	
ZFK9U6	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
ZNJQB3	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
ZPBQ9D	GlobalFiler™ Express					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NR			NR	
ZWNXQ3	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
ZYDC9K	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
1	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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

2AAECE	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
2ATKC6	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
2B4HM2	GlobalFiler™ Direct					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
2KA6V2	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
2KTXNY	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
2QJL6P	PowerPlex® 21 (STRmix v2.7.0)					
	17.3,17.3	17,17		15,15	7,9	11,16
2	11,11	13,14		15,17	11,13	12,13
	10,17	14,14.2	28,30		X,Y	10,11
	23,24	11,12	8,9		6,9	8,8
	15,19					
2UX64X	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	

TABLE 1

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

Item 2 - STR Results

2XZ2VE	GlobalFiler™ Express					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
37NCHE	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
3EYCEB	Identifiler® Plus (in house software)					
		17,17		15,15	7,9	
2	11,11	13,14			11,13	12,13
	10,17	14,14.2	28,30		X,Y	10,11
	23,24				6,9	8,8
	15,19					
3FXGXQ	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	N/A
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	N/A	N/A	28.2,28.2	6,9	8,8
	15,19	10	N/A	N/A	2	
3K8X6T	PowerPlex® Fusion 6C					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9	28.2,28.2	6,9	8,8
	15,19	10	18	17		
3PKFLA	PowerPlex® Fusion					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9		6,9	8
	15,19	10				
3UHYQU	PowerPlex® Fusion 6C					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9	28.2,28.2	6,9	8,8
	15,19	10	18	17		

TABLE 1

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

Item 2 - STR Results

44X73N	PowerPlex® ESX16 Fast					
	17.3	17	10,14	15		
2		13,14	12,14	15,17		12,13
	10,17	14,14.2	28,30	12,15	X,Y	
	23,24				6,9	
	15,19					
44ZZJ9	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
4D2KJF	GlobalFiler™ (GeneMapper ID-X v1.4)					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
4KMGPQ	PowerPlex® Fusion 6C					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9	28.2,28.2	6,9	8,8
	15,19	10	18	17		
4PH8V3	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
4PV29G	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
4TWRWW	PowerPlex® Fusion 6C					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9	28.2,28.2	6,9	8,8
	15,19	10	18	17		

TABLE 1

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

Item 2 - STR Results

6J7JWQ	GlobalFiler™					
	17,3,17,3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
6J8EDC	ESI-17					
	17,3,17,3	17,17	10,14	15,15		
2	11,11	13,14	12,14	15,17		12,13
	10,17	14,14.2	28,30	12,15	X,Y	
	23,24			28.2,28.2	6,9	
	15,19					
6M6VTQ	GlobalFiler™					
	17,3,17,3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
6M8PAB	PROMEGA ESI-17 FAST					
	17,3,17,3	17,17	10,14	15,15		
2	11,11	13,14	12,14	15,17		12,13
	10,17	14,14.2	28,30	12,15	X,Y	
	23,24			28.2,28.2	6,9	
	15,19					
6NGUMZ	GlobalFiler™					
	17,3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
6TXYJA	PowerPlex® Fusion					
	17,3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9		6,9	8
	15,19	10				
7BCTTV	GlobalFiler™					
	17,3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	

TABLE 1

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

Item 2 - STR Results

7BPM6P	PowerPlex® Fusion 6C					
	17,3,17,3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9	28.2,28.2	6,9	8,8
	15,19	10	18	17		
7H8Z7A	NGM					
	17,3,17,3	17,17	10,14	15,15		
2		13,14	12,14	15,17		12,13
	10,17	14,14.2	28,30	12,15	X,Y	
	23,24				6,9	
	15,19					
7J67PN	PowerPlex® Fusion					
	17,3,17,3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9		6,9	8,8
	15,19	10				
7LQTGC	GlobalFiler™					
	17,3,17,3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
7Q27YB	Identifiler® Direct					
		17		15	7,9	
2	11	13,14			11,13	12,13
	10,17	14,14.2	28,30		X,Y	10,11
	23,24				6,9	8
	15,19					
7UKXBD	GlobalFiler™					
	17,3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
7WPLRN	PowerPlex® Fusion 6C					
	17,3,17,3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9	28.2,28.2	6,9	8,8
	15,19	10	18	17		

TABLE 1

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

Item 2 - STR Results

7WRF9	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
7XL23Z	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
84KBKC	PowerPlex® Fusion 6C					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9	28.2,28.2	6,9	8,8
	15,19	10	18	17		
88L28Q	Investigator® 24plex					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10				
8BRGLA	Investigator® 24plex QS					
	17.3,17.3	17,17	10,14	15,15	7,9	N/A
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	N/A	N/A	28.2,28.2	6,9	8,8
	15,19	10	N/A	N/A	N/A	
8JZ9RX	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
8KUYWD	PowerPlex® Fusion 6C, GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	

TABLE 1

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

Item 2 - STR Results

8RC8LA	Identifiler® Direct					
		17		15	7,9	
2		11	13,14		11,13	12,13
		10,17	14,14.2	28,30	X,Y	10,11
		23,24			6,9	8
		15,19				
92WYK7	PowerPlex®					
		17.3,17.3	17,17	10,14	15,15	
2			13,14	12,14	15,17	12,13
		10,17	14,14.2	28,30	12,15	X,Y
		23,24		28.2,28.2	6,9	
		15,19				
93U44L	PowerPlex® Fusion 6C					
		17.3,17.3	17,17	10,14	15,15	7,9
2		11,11	13,14	12,14	15,17	11,13
		10,17	14,14.2	28,30	12,15	X,Y
		23,24	11,12	8,9	28.2,28.2	6,9
		15,19	10	18	17	8,8
9FGDN7	PowerPlex® Fusion					
		17.3	17	10,14	15	7,9
2		11	13,14	12,14	15,17	11,13
		10,17	14,14.2	28,30	12,15	X,Y
		23,24	11,12	8,9	6,9	8
		15,19	10			
9JC8L8	GlobalFiler™					
		17.3,17.3	17,17	10,14	15,15	7,9
2		11,11	13,14	12,14	15,17	11,13
		10,17	14,14.2	28,30	12,15	X,Y
		23,24		28.2,28.2	6,9	8,8
		15,19	10		2	
9KAD6M	GlobalFiler™					
		17.3	17	10,14	15	7,9
2		11	13,14	12,14	15,17	11,13
		10,17	14,14.2	28,30	12,15	X,Y
		23,24		28.2	6,9	8
		15,19	10		2	
9XWMP7	GlobalFiler™ (TrueAllele)					
		17.3	17	10,14	15	7,9
2		11	13,14	12,14	15,17	11,13
		10,17	14,14.2	28,30	12,15	X,Y
		23,24		28.2	6,9	8
		15,19	10		2	

TABLE 1

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

Item 2 - STR Results

9YUT8L	PowerPlex® Fusion 6C					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9	28.2,28.2	6,9	8,8
	15,19	10	18	17		
A4EGWN	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
A6PEB7	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
A7NKTk	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
A9A8L9	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
AQTZCX	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
BF3Y88	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	

TABLE 1

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

Item 2 - STR Results

CFL3F8	GlobalFiler™						
		17.3	17	10,14	15	7,9	
	2	11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2	6,9	8
		15,19	10			2	
CHN3F6	Identifiler® Direct						
			17		15	7,9	
	2	11	13,14			11,13	12,13
		10,17	14,14.2	28,30		X,Y	10,11
		23,24				6,9	8
		15,19					
CHRHUQ	GlobalFiler™ Direct						
		17.3	17	10,14	15	7,9	
	2	11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2	6,9	8
		15,19	10			2	
CL9VQ8	GlobalFiler™						
		17.3	17	10,14	15	7,9	
	2	11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2	6,9	8
		15,19	10			2	
CMMG3U	GlobalFiler™						
		17.3	17	10,14	15	7,9	
	2	11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2	6,9	8
		15,19	10			2	
CXTYDY	PowerPlex® Fusion						
		17.3	17	10,14	15	7,9	
	2	11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24	11,12	8,9		6,9	8
		15,19	10				
D6HANR	GlobalFiler™						
		17.3	17	10,14	15	7,9	
	2	11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2	6,9	8
		15,19	10			2	

TABLE 1

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

Item 2 - STR Results

DARHVN	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
DCGW8	GlobalFiler™ Express					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
DDR2Q	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
DE2P8L	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
DGCML4	Identifiler® Direct					
		17		15	7,9	
2	11	13,14			11,13	12,13
	10,17	14,14.2	28,30		X,Y	10,11
	23,24				6,9	8
	15,19					
DJZYKA	PowerPlex® Fusion 5C					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9		6,9	8,8
	15,19	10				
DP7TE6	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	

TABLE 1

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

Item 2 - STR Results

DQDBDZ	PowerPlex® Fusion					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9		6,9	8
	15,19	10				
DRTAWP	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
DTTAAW	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
DVW7FT	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
DYWC2Q	GlobalFiler™ Direct					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
DZ6LPG	PowerPlex® Fusion					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9		6,9	8,8
	15,19	10				
EK74B3	GlobalFiler™ (STRmix)					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	

TABLE 1

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

Item 2 - STR Results

EPZX94	GlobalFiler™	17.3	17	10,14	15	7,9	
	2	11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2	6,9	8
		15,19	10			2	
EUG7W4	GlobalFiler™	17.3	17	10,14	15	7,9	
	2	11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2	6,9	8
		15,19	10			2	
EV6JEL	GlobalFiler™	17.3,17.3	17,17	10,14	15,15	7,9	
	2	11,11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2,28.2	6,9	8,8
		15,19	10			2	
FBCD7L	GlobalFiler™	17.3	17	10,14	15	7,9	
	2	11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2	6,9	8
		15,19	10			2	
FFUFB7	PowerPlex® Fusion 6C, GlobalFiler™	17.3,17.3	17,17	10,14	15,15	7,9	
	2	11,11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2,28.2	6,9	8,8
		15,19	10			2	
FGLCYZ	GlobalFiler™ Express	17.3,17.3	17,17	10,14	15,15	7,9	
	2	11,11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2,28.2	6,9	8,8
		15,19	10			2	
G243C2	GlobalFiler™	17.3	17	10,14	15	7,9	
	2	11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2	6,9	8
		15,19	10			2	

TABLE 1

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

Item 2 - STR Results

G2K4CH	GlobalFiler™					
	17,3,17,3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
G72JNV	GlobalFiler™ (BulletProof)					
	17,3,17,3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
G7ZP8B	GlobalFiler™					
	17,3,17,3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
GAKERN	GlobalFiler™					
	17,3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
GC4NKL	GlobalFiler™					
	17,3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
GECLAW	GlobalFiler™ (BulletProof)					
	17,3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
GET334	GlobalFiler™					
	17,3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	

TABLE 1

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

Item 2 - STR Results

GFBRTC	GlobalFiler™ (Genemapper)					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
GNJN93	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
GV2WWY	GlobalFiler™ CASEWORK					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
GVY3FE	PowerPlex® Fusion 5C					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9		6,9	8,8
	15,19	10				
GXP9V6	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
HADWXG	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
HDD8UG	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	

TABLE 1

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

Item 2 - STR Results

HTF7PT	PowerPlex® Fusion					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9		6,9	8
	15,19	10				
J39ARY	GlobalFiler™ (STRmix)					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
J3R9QH	GlobalFiler™ Direct					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
J6YCY9	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
J6Z7GT	PowerPlex® Fusion					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9		6,9	8
	15,19	10				
J79LMY	GlobalFiler™ (STRmix)					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
JL9HRJ	GlobalFiler™ Direct					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	

TABLE 1

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

Item 2 - STR Results

JMZJPU	PowerPlex® Fusion					
	17,3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9		6,9	8
	15,19	10				
JPNVNZ	GlobalFiler™					
	17,3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
JYPHFW	Investigator® 24plex GO!/QS					
	17,3,17,3	17,17	10,14	15,15	7,9	N/A
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	N/A	N/A	28.2,28.2	6,9	8,8
	15,19	10	N/A	N/A	N/A	
JZMNYC	PowerPlex® Fusion 6C					
	17,3,17,3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9	28.2,28.2	6,9	8,8
	15,19	10	18	17		
K2U37H	PowerPlex® Fusion 6C					
	17,3,17,3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9	28.2,28.2	6,9	8,8
	15,19	10	18	17		
K38WJX	GlobalFiler™					
	17,3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
K8Y8UV	GlobalFiler™					
	17,3,17,3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	

TABLE 1

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

Item 2 - STR Results

K9WCCB	GlobalFiler™						
		17.3,17.3	17,17	10,14	15,15	7,9	
	2	11,11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2,28.2	6,9	8,8
	15,19	10			2		
KB33DY	GlobalFiler™						
		17.3	17	10,14	15	7,9	
	2	11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2	6,9	8
	15,19	10			2		
KE3777	Identifiler® Plus						
			17,17		15,15	7,9	
	2	11,11	13,14			11,13	12,13
		10,17	14,14.2	28,30		X,Y	10,11
		23,24				6,9	8,8
	15,19						
KFTCMW	GlobalFiler™ (STRmix)						
		17.3	17	10,14	15	7,9	
	2	11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2	6,9	8
	15,19	10			2		
KHGP6E	GlobalFiler™						
		17.3,17.3	17,17	10,14	15,15	7,9	
	2	11,11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2,28.2	6,9	8,8
	15,19	10			2		
KKM7KX	GlobalFiler™						
		17.3	17	10,14	15	7,9	
	2	11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2	6,9	8
	15,19	10			2		
KPHVAH	PowerPlex® Fusion						
		17.3,17.3	17,17	10,14	15,15	7,9	
	2	11,11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24	11,12	8,9		6,9	8,8
	15,19	10					

TABLE 1

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

Item 2 - STR Results

KTHBDY	PowerPlex® Fusion 6C					
	17,3,17,3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9	28.2,28.2	6,9	8,8
	15,19	10	18	17		
KWHF88	PowerPlex® Fusion 6C					
	17,3,17,3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9	28.2,28.2	6,9	8,8
	15,19	10	18	17		
KY9LNX	GlobalFiler™					
	17,3,17,3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
LD6ZNQ	GlobalFiler™					
	17,3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,20	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
LDG22D	PowerPlex® 5C					
	17,3	17	10,14	15	7,9	--
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9	--	6,9	8
	15,19	10	--	--	--	
LG8UNG	PowerPlex® Fusion					
	17,3,17,3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9		6,9	8,8
	15,19	10				
LMR4MD	Identifiler® Plus					
		17,17		15,15	7,9	
2	11,11	13,14			11,13	12,13
	10,17	14,14.2	28,30		X,Y	10,11
	23,24				6,9	8,8
	15,19					

TABLE 1

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

Item 2 - STR Results

LR42ZR	PowerPlex® Fusion 5C					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9		6,9	8
	15,19	10				
LWKANR	GlobalFiler™ Express					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
M2MXJ6	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	NA
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	NA	NA	28.2,28.2	6,9	8,8
	15,19	10	NA	NA	2	
MZB4YX	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
N4RMJT	PowerPlex® ESI17_FAST					
	17.3,17.3	17,17	10,14	15,15		
2		13,14	12,14	15,17		12,13
	10,17	14,14.2	28,30	12,15	X,Y	
	23,24			28.2,28.2	6,9	
	15,19					
N686KD	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
N7WB24	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	

TABLE 1

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

Item 2 - STR Results

N7Y6HN	PowerPlex® Fusion					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9		6,9	8
	15,19	10				
NLMF6Q	GlobalFiler™ (Genemapper ID-X)					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
NMLLN7	PowerPlex® Fusion 6C					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9	28.2,28.2	6,9	8,8
	15,19	10	18	17		
NPQBNT	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
P9ZQKE	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
PCGVGN	GlobalFiler™ Express					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
PDAQ4W	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	

TABLE 1

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

Item 2 - STR Results

Q3N3M4	PowerPlex® Fusion 6C					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9	28.2,28.2	6,9	8,8
	15,19	10	18	17		
Q3PW4N	NGM SElect					
	17.3,17.3	17,17	10,14	15,15		
2	11,11	13,14	12,14	15,17		12,13
	10,17	14,14.2	28,30	12,15	X,Y	
	23,24			28.2,28.2	6,9	
	15,19					
Q6F222	PowerPlex® Fusion 6C					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9	28.2,28.2	6,9	8,8
	15,19	10	18	17		
R94AD8	GlobalFiler™ CASEWORK					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10,10			2	
RCU2ZB	PowerPlex® Fusion					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9		6,9	8,8
	15,19	10				
RDL3XL	GlobalFiler™ Express					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
RKNC4E	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	

TABLE 1

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

Item 2 - STR Results

RWFXAA	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
RYAMWC	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
RZDJYR	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
TBDAHE	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
TBTT3B	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
TLETY9	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
TQ74TJ	GlobalFiler™ Express					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	

TABLE 1

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

Item 2 - STR Results

TTXZFR	GlobalFiler™ Express					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
TU4HF9	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
TXP8ZL	PowerPlex® Fusion 5C					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9		6,9	8
	15,19	10				
TYZALK	GlobalFiler™ Express					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
U2M9DN	PowerPlex® Fusion					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9		6,9	8
	15,19	10				
UHNZD4	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
UP8GRZ	PowerPlex® Fusion 6C					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9	28.2,28.2	6,9	8,8
	15,19	10	18	17		

TABLE 1

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

Item 2 - STR Results

UP9B9K	PowerPlex® Fusion, GlobalFiler™ (Genemapper ID-X)					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9	28.2	6,9	8
	15,19	10			2	
UVJ6PB	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
VE3TAM	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
VHNAT8	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
VLR229	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
VMGEJQ	PowerPlex® ESI Fast					
	17.3,17.3	17,17	10,14	15,15		
2		13,14	12,14	15,17		12,13
	10,17	14,14.2	28,30	12,15	X,Y	
	23,24				6,9	
	15,19					
WQ4WP	GlobalFiler™ Express					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	

TABLE 1

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

Item 2 - STR Results

YCKEA	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
W2VYHA	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
W364WY	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	N/A
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	N/A	N/A	28.2,28.2	6,9	8,8
	15,19	10	N/A	N/A	2	
W38YDJ	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
WDNHXF	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
WEMNFV	Identifiler® Plus					
		17,17		15,15	7,9	
2	11,11	13,14			11,13	12,13
	10,17	14,14.2	28,30		X,Y	10,11
	23,24				6,9	8,8
	15,19					
WH29E4	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	

TABLE 1

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

Item 2 - STR Results

WUA76P	GlobalFiler™	17.3	17	10,14	15	7,9	
	2	11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2	6,9	8
		15,19	10			2	
WXAHPZ	GlobalFiler™	17.3	17	10,14	15	7,9	
	2	11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2	6,9	8
		15,19	10			2	
X8U9ZM	GlobalFiler™	17.3,17.3	17,17	10,14	15,15	7,9	
	2	11,11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2,28.2	6,9	8,8
		15,19	10			2	
XKHBHE	GlobalFiler™ Express	17.3	17	10,14	15	7,9	
	2	11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2	6,9	8
		15,19	10			2	
XLFF2U	GlobalFiler™	17.3,17.3	17,17	10,14	15,15	7,9	N/A
	2	11,11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24	N/A	N/A	28.2,28.2	6,9	8,8
		15,19	10	N/A	N/A	2	
XP26L8	GlobalFiler™	17.3	17	10,14	15	7,9	
	2	11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24			28.2	6,9	8
		15,19	10			2	
XQR4Z6	PowerPlex® Fusion 6C	17.3,17.3	17,17	10,14	15,15	7,9	Not Tested
	2	11,11	13,14	12,14	15,17	11,13	12,13
		10,17	14,14.2	28,30	12,15	X,Y	10,11
		23,24	11,12	8,9	28.2,28.2	6,9	8,8
		15,19	10	18	17	Not Tested	

TABLE 1

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

XTZGG8	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
Y4DZCM	PowerPlex® Fusion 6C, GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
Y7ZHU9	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
YBAVC7	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
YBW7BF	GlobalFiler™ Express					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
YJPEUK	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
YQKL7Y	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	

TABLE 1

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

Item 2 - STR Results

YRY38J	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
Z26AMJ	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
Z7X8DV	GlobalFiler™					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2,28.2	6,9	8,8
	15,19	10			2	
Z9NDUL	NGM SElect Express					
	17.3,17.3	17,17	10,14	15,15		
2		13,14	12,14	15,17		12,13
	10,17	14,14.2	28,30	12,15	X,Y	
	23,24			28.2,28.2	6,9	
	15,19					
ZAYFFK	GlobalFiler™ Express					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
ZB9KVU	PowerPlex® Fusion					
	17.3,17.3	17,17	10,14	15,15	7,9	
2	11,11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24	11,12	8,9		6,9	8,8
	15,19	10				
ZDXQCK	GlobalFiler™ Express					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	

TABLE 1

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

Item 2 - STR Results

ZFK9U6	GlobalFiler™ (STRmix)					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
ZNJQB3	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
ZPBQ9D	GlobalFiler™ Express					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
ZWNXQ3	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	
ZYDC9K	GlobalFiler™					
	17.3	17	10,14	15	7,9	
2	11	13,14	12,14	15,17	11,13	12,13
	10,17	14,14.2	28,30	12,15	X,Y	10,11
	23,24			28.2	6,9	8
	15,19	10			2	

TABLE 1

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

Item 3 - STR Results

2AAECE	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
2ATKC6	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
2B4HM2	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
2KA6V2	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
2KTXNY	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
2QJL6P	PowerPlex® 21 (STRmix v2.7.0)					
	16,17.3	19,24		17,18	10,12	11,21.3
3	10,12	10,13		18,20	9,11	12,12
	15,18	13,13.2	28,30		X,X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18					
2UX64X	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	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 3 - STR Results

2XZ2VE	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
37NCHE	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
3EYCEB	Identifiler® Plus (in house software)					
		19,24		17,18	10,12	
3	10,12	10,13			9,11	12,12
	15,18	13,13.2	28,30		X,X	11,12
	21,22				7,8	10,11
	16,18					
3FXGXQ	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	N/A
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	N/A	N/A	16,30.2	7,8	10,11
	16,18	NSD	N/A	N/A	NSD	
3K8X6T	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
3PKFLA	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	NR				
3UHYQU	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		

TABLE 1

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

Item 3 - STR Results

44X73N	PowerPlex® ESX16 Fast					
	16,17.3	19,24	14	17,18		
3		10,13	13,15	18,20		12
	15,18	13,13.2	28,30	15,16	X,X	
	21,22				7,8	
	16,18					
44ZZJ9	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3		10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NM			NM	
4D2KJF	GlobalFiler™ (GeneMapper ID-X v1.4)					
	16,17.3	19,24	14,14	17,18	10,12	
3		10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
4KMGPQ	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
3		10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
4PH8V3	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3		10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
4PV29G	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3		10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
4TWRVW	PowerPlex® Fusion 6C					
	16,17.3	19,24	14	17,18	10,12	
3		10,13	13,15	18,20	9,11	12
	15,18	13,13,2	28,30	15,16	X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	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 3 - STR Results

6J7JWQ	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
6J8EDC	ESI-17					
	16,17.3	19,24	14,14	17,18		
3		10,13	13,15	18,20		12,12
	15,18	13,13.2	28,30	15,16	X,X	
	21,22			16,30.2	7,8	
	16,18					
6M6VTQ	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
6M8PAB	PROMEGA ESI-17 FAST					
	16,17.3	19,24	14,14	17,18		
3		10,13	13,15	18,20		12,12
	15,18	13,13.2	28,30	15,16	X,X	
	21,22			16,30.2	7,8	
	16,18					
6NGUMZ	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
6TXYJA	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	NR				
7BCTTV	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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 3 - STR Results

7BPM6P	PowerPlex® Fusion 6C (STRmix)					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
7H8Z7A	NGM					
	16,17.3	19,24	14,14	17,18		
3		10,13	13,15	18,20		12,12
	15,18	13,13.2	28,30	15,16	X,X	
	21,22				7,8	
	16,18					
7J67PN	PowerPlex® Fusion					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18					
7Q27YB	Identifiler® Plus					
		19,24		17,18	10,12	
3	10,12	10,13			9,11	12
	15,18	13,13.2	28,30		X,X	11,12
	21,22				7,8	10,11
	16,18					
7UKXBD	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
7WPLRN	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
7WRFA9	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	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 3 - STR Results

7XL23Z	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
84KBKC	PowerPlex® Fusion 6C (STRmix)					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18					
88L28Q	Investigator® 24plex					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
8BRGLA	Investigator® 24plex QS					
	16,17.3	19,24	14,14	17,18	10,12	N/A
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22	N/A	N/A	16,30.2	7,8	10,11
	16,18	N/A	N/A	N/A	N/A	
8JZ9RX	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
8KUYWD	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22			16,30.2	7,8	10,11
	16,18	Not Detected			Not Detected	
8RC8LA	Identifiler® Plus					
		19,24		17,18	10,12	
3	10,12	10,13			9,11	12
	15,18	13,13.2	28,30		XX	11,12
	21,22				7,8	10,11
	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 3 - STR Results

92WYK7	PowerPlex®					
	16,17.3	(14),19,24	14,14	17,18		
3		10,13	13,15	18,20		12,12
	15,18	13,13.2	28,30	15,16	X,X	
	21,22			16,30.2	7,8	
	16,18					
93U44L	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
9FGDN7	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	NR				
9JC8L8	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
9XWMP7	GlobalFiler™ (TrueAllele)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
9YUT8L	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
A4EGWN	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	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 3 - STR Results

A6PEB7	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
A9A8L9	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	---			---	
AQTZCX	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
BF3Y88	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
CFL3F8	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
CHN3F6	Identifiler® Plus					
		19,24		17,18	10,12	
3	10,12	10,13			9,11	12
	15,18	13,13.2	28,30		X,X	11,12
	21,22				7,8	10,11
	16,18					
CHRHUQ	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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 3 - STR Results

CL9VQ8	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
CMMG3U	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
CXTYDY	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18					
D6HANR	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
DARHVN	GlobalFiler™ (STRMix)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
DCGWD8	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
DDR2Q	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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 3 - STR Results

DE2P8L	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
DGCML4	Identifiler® Plus (DNA View ver37.33)					
		19,24		17,18	10,12	
3	10,12	10,13			9,11	12
	15,18	13,13.2	28,30		X,X	11,12
	21,22				7,8	10,11
	16,18					
DJZYKA	PowerPlex® Fusion 5C					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	ND				
DP7TE6	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
DQDBDZ	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	NR				
DRTAWP	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
DTTAAW	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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 3 - STR Results

DWV7FT	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
DYWC2Q	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
DZ6LPG	PowerPlex® Fusion					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	ND				
EK74B3	GlobalFiler™ (STRmix)					
	16,17.3	19,24	13,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
EPZX94	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
EUG7W4	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
EV6JEL	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	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 3 - STR Results

F6BWYM	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
FBCD7L	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
FFUFB7	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	Not detected			Not detected	
FGLCYZ	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
G243C2	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
G2K4CH	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
G72JNV	GlobalFiler™ (BulletProof)					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	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 3 - STR Results

G7ZP8B	GlobalFiler™						
		16,17.3	19,24	14,14	17,18	10,12	
	3	10,12	10,13	13,15	18,20	9,11	12,12
		15,18	13,13.2	28,30	15,16	X,X	11,12
		21,22			16,30.2	7,8	10,11
	16,18						
GAKERN	GlobalFiler™						
		16,17.3	19,24	14	17,18	10,12	
	3	10,12	10,13	13,15	18,20	9,11	12
		15,18	13,13.2	28,30	15,16	X	11,12
		21,22			16,30.2	7,8	10,11
	16,18						
GECLAW	GlobalFiler™ (BulletProof)						
		16,17.3	19,24	14,14	17,18	10,12	
	3	10,12	10,13	13,15	18,20	9,11	12
		15,18	13,13.2	28,30	15,16	X,X	11,12
		21,22			16,30.2	7,8	10,11
	16,18						
GET334	GlobalFiler™						
		16,17.3	19,24	14	17,18	10,12	
	3	10,12	10,13	13,15	18,20	9,11	12
		15,18	13,13.2	28,30	15,16	X,X	11,12
		21,22			16,30.2	7,8	10,11
	16,18						
GFBRTC	GlobalFiler™ (Genemapper)						
		16,17.3	19,24	14,14	17,18	10,12	
	3	10,12	10,13	13,15	18,20	9,11	12,12
		15,18	13,13.2	28,30	15,16	X,X	11,12
		21,22			16,30.2	7,8	10,11
	16,18						
GNJN93	GlobalFiler™ (STRmix)						
		16,17.3	19,24	14	17,18	10,12	
	3	10,12	10,13	13,15	18,20	9,11	12
		15,18	13,13.2	28,30	15,16	X	11,12
		21,22			16,30.2	7,8	10,11
	16,18						
GV2WWY	GlobalFiler™ CASEWORK						
		16,17.3	19,24	14,14	17,18	10,12	
	3	10,12	10,13	13,15	18,20	9,11	12,12
		15,18	13,13.2	28,30	15,16	X,X	11,12
		21,22			16,30.2	7,8	10,11
	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 3 - STR Results

GVY3FE	PowerPlex® Fusion 5C					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	---				
GXP9V6	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
HADWXG	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
HDD8UG	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
HTF7PT	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,14
	21,22	7,10	16,19		7,8	10,11
	16,18					
J39ARY	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
J3R9QH	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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 3 - STR Results

J6YCY9	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NR			NR	
J6Z7GT	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	NR				
J79LMY	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
JL9HRJ	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
JMZJPU	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	N/R				
JPNVNZ	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
JYPHFW	Investigator® 24plex QS					
	16,17.3	19,24	14,14	17,18	10,12	N/A
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	N/A	N/A	16,30.2	7,8	10,11
	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 3 - STR Results

JZMNYC	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
K2U37H	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	No Results	No Results	No Results		
K38WJX	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
K8Y8UV	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
K9WCCB	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
KB33DY	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
KE3777	Identifiler® Plus					
		19,24		17,18	10,12	
3	10,12	10,13			9,11	12,12
	15,18	13,13.2	28,30		X,X	11,12
	21,22				7,8	10,11
	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 3 - STR Results

KFTCMW	GlobalFiler™ (STRmix)					
3	16,17.3	19,24	14	17,18	10,12	
	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
KHGP6E	GlobalFiler™					
3	16,17.3	19,24	14,14	17,18	10,12	
	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
KKM7KX	GlobalFiler™ (STRmix)					
3	16,17.3	19,24	14	17,18	10,12	
	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
KPHVAH	PowerPlex® Fusion					
3	16,17.3	19,24	14,14	17,18	10,12	
	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18					
KTHBDY	PowerPlex® Fusion 6C (STRmix)					
3	16,17.3	19,24	14,14	17,18	10,12	
	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18					
KWHF88	PowerPlex® Fusion 6C					
3	16,17.3	19,24	14,14	17,18	10,12	
	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	ND	ND	ND		
LD6ZNQ	GlobalFiler™					
3	16,17.3	19,24	14	17,18	10,12	
	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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 3 - STR Results

LDG22D	PowerPlex® 5C					
	16,17.3	19,24	14	17,18	10,12	--
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19	--	7,8	10,11
	16,18	--	--	--	--	--
LG8UNG	PowerPlex® Fusion					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18					
LMR4MD	Identifiler® Plus					
		19,24		17,18	10,12	
3	10,12	10,13			9,11	12,12
	15,18	13,13.2	28,30		X,X	11,12
	21,22				7,8	10,11
	16,18					
LR42ZR	PowerPlex® Fusion 5C					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	NR				
LWKANR	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NM			NM	
M2MXJ6	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	NA
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	NA	NA	16,30.2	7,8	10,11
	16,18	NA	NA	NA	NA	
MZB4YX	GlobalFiler™ (STRmix v2.6.3.04)					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	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 3 - STR Results

N4RMJT	PowerPlex® ESI17_FAST					
	16,17.3	19,24	14,14	17,18		
3		10,13	13,15	18,20		12,12
	15,18	13,13.2	28,30	15,16	X,X	
	21,22			16,30.2	7,8	
	16,18					
N686KD	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
N7WB24	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
N7Y6HN	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	NR				
NLMF6Q	GlobalFiler™ (Genemapper ID-X)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
NMLLN7	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
NPQBNT	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	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 3 - STR Results

P9ZQKE	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
PCGVGN	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	No Results			No Results	
PDAQ4W	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
Q3N3M4	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
Q6F222	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	ND	ND	ND		
R94AD8	GlobalFiler™ CASEWORK					
	16,17.3	18,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
RCU2ZB	PowerPlex® Fusion					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19		7,8	10,11
	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 3 - STR Results

RDL3XL	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	No results			No results	
RKNC4E	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
RWFXAA	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
RYAMWC	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
RZDJYR	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
TBDAHE	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
TBTT3B	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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 3 - STR Results

TLETY9	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
TQ74TJ	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NM			NM	
TTXZFR	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	No results			No results	
TU4HF9	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
TXP8ZL	PowerPlex® Fusion 5C					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18	NR				
TYZALK	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NR			NR	
U2M9DN	PowerPlex® Fusion					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19		7,8	10,11
	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 3 - STR Results

UHNZD4	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
UP8GRZ	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	NR	NR	NR		
UP9B9K	PowerPlex® Fusion, GlobalFiler™ (Genemapper ID-X)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18					
UVJ6PB	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
VE3TAM	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
VHNAT8	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
VLR229	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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 3 - STR Results

VMGEJQ	PowerPlex® ESI Fast					
3	16,17.3	19,24	14,14	17,18		
		10,13	13,15	18,20		12,12
	15,18	13,13.2	28,30	15,16	X,X	
	21,22				7,8	
	16,18					
WQ4WP	GlobalFiler™					
3	16,17.3	19,24	14	17,18	10,12	
	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NR			NR	
YCKEA	GlobalFiler™ (STRmix)					
3	16,17.3	19,24	14	17,18	10,12	
	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
W2VYHA	GlobalFiler™					
3	16,17.3	19,24	14	17,18	10,12	
	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
W364WY	GlobalFiler™					
3	16,17.3	19,24	14,14	17,18	10,12	N/A
	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	N/A	N/A	16,30.2	7,8	10,11
	16,18	N/A	N/A	N/A	N/A	N/A
W38YDJ	GlobalFiler™					
3	16,17.3	19,24	14,14	17,18	10,12	
	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
WDNHXF	GlobalFiler™					
3	16,17.3	19,24	14	17,18	10,12	
	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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 3 - STR Results

WEMNFV	Identifiler® Plus					
		19,24		17,18	10,12	
3	10,12	10,13			9,11	12,12
	15,18	13,13.2	28,30		X,X	11,12
	21,22				7,8	10,11
	16,18					
WH29E4	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
WUA76P	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NR			NR	
WXAHZP	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NR			NR	
X8U9ZM	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
XKHBHE	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NM			NM	
XLFF2U	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	N/A
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	N/A	N/A	16,30.2	7,8	10,11
	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 3 - STR Results

XP26L8	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
XQR4Z6	PowerPlex® Fusion 6C					
	16,17.3	19,24	14,14	17,18	10,12	Not Tested
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	No Results	No Results	No Results	Not Tested	
XTZGG8	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
Y4DZCM	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	XX	11,12
	21,22			16,30.2	7,8	10,11
	16,18	Not detected			Not detected	
Y7ZHU9	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
YBAVC7	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
YBW7BF	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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 3 - STR Results

YJPEUK	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
YQKL7Y	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
YRY38J	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
Z26AMJ	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
Z7X8DV	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
Z9NDUL	NGM SElect					
	16,17.3	19,24	14,14	17,18		
3		10,13	13,15	18,20		12,12
	15,18	13,13.2	28,30	15,16	X,X	
	21,22			16,30.2	7,8	
	16,18					
ZAYFFK	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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 3 - STR Results

ZB9KVU	PowerPlex® Fusion					
	16,17.3	19,24	14,14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22	7,10	16,19		7,8	10,11
	16,18					
ZDXQCK	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	No results			No results	
ZFK9U6	GlobalFiler™ (STRmix)					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
ZNJQB3	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
ZPBQ9D	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	NR			NR	
ZWNXQ3	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
ZYDC9K	GlobalFiler™					
	16,17.3	19,24	14	17,18	10,12	
3	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22			16,30.2	7,8	10,11
	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 3e - STR Results

7LQTGC	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3e	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18					
KY9LNX	GlobalFiler™					
	16,17.3	19,24	14,14	17,18	10,12	
3e	10,12	10,13	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	21,22			16,30.2	7,8	10,11
	16,18	--			--	
Q3PW4N	NGM SElect					
	16,17.3	19,24	14,14	17,18		
3e		10,13	13,15	18,20		12,12
	15,18	13,13.2	28,30	15,16	X,X	
	21,22			16,30.2	7,8	
	16,18					

TABLE 1

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

Item 3sp - STR Results

7LQTGC GlobalFiler™

3sp



KY9LNX GlobalFiler™

3sp



Q3PW4N NGM SElect

3sp



TABLE 1

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

Item 4 - STR Results

2AAECE	GlobalFiler™ (STRmix)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,16,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
2UX64X	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
6M8PAB	PROMEGA ESI-17 FAST					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18		
4		10,13,14	13,14,15	18,20,22		9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	
	20,21,22,23			14,16,26.2,30.2	7,8,9	
	17,18					
A4EGWN	GlobalFiler™					
	13,15,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4	8,10,11,12	10,13,14	13,14	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
CXTYDY	PowerPlex® Fusion					
	13,15,(16),(17.3)	19,20,(24)	10,11,(14)	14,15,(17),(18)	(10),11,12	
4	8,(10),11,(12)	10,(13),14	13,14,(15)	18,(20),22	(9),(11),12,14	9,10,(12)
	15,18	13,(13.2),14.2	30,31	12,(15),16	X,Y	11,12
	20,(21),(22),23	(7),9,10	5,16,(19)		(7),(8),9	8,(10),(11)
	(16),17,(18)	11				
EV6JEL	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	17,18	11			2	
G72JNV	GlobalFiler™ (BulletProof)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,[17],[18]	10,11,12	
4	8,10,11,12	10,13,14	13,14,[15]	18,[20],22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	[28],30,31	12,15,16	X,[Y]	11,12
	20,21,22,23			14,16,26.2,30.2	[7],[8],9	8,[10],[11]
	[16],17,[18]	11			2	

TABLE 1

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

Item 4 - STR Results

HADWXG	GlobalFiler™						
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12		
	4	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y		11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9		8,10
	17,18	11			2		
HDD8UG	GlobalFiler™						
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12		
	4	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11	9,10,12
	28,30	13,13.2,14.2	7,8,9	12,15,16,17	X,Y		11,12
	20,21,22,23			16,26.2,30.2	7,8,9		8,10,11
	16,17,18	11					
HTF7PT	PowerPlex®						
	13,15,(16,17.3)	19,20,(24)	10,11,(14)	14,17,(17,18)	10,11,12		
	4	8,(10),11,(12)	10,(13),14	13,14	18,(20),22	(9,11),12,14	9,10,(12)
	15,18	13,(13.2),14.2	28,30,31	12,(15),16	X,Y		11,12
	20,(21,22),23	(7),9,10	15,(16,19)		(7,8),9		8,(10)
	(16),17,(18)	11					
KHGP6E	GlobalFiler™						
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12		
	4	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y		11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9		8,10,11
	16,17,18	11			2		
KTHBDY	PowerPlex® Fusion 6C						
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12		
	4	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y		11,12
	20,21,22,23	7,9,10	5,16,19	14,16,26.2,30.2	7,8,9		8,10,11
	16,17,18	11	19	16			
NLMF6Q	GlobalFiler™ (Genemapper ID-X)						
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12		
	4	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y		11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9		8,10,11
	16,17,18	11			2		
UHNZD4	GlobalFiler™						
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12		
	4	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y		11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9		8,10,11
	16,17,18	11			2		

TABLE 1

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

Item 4 - STR Results

UP9B9K	PowerPlex® Fusion, GlobalFiler™ (Genemapper ID-X)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	7,9,10	5,16,19	14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
WH29E4	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
YQKL7Y	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	

TABLE 1

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

Item 4e - STR Results

2ATKC6	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
2B4HM2	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	11			2	
2KA6V2	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
2KTXNY	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
2QJL6P	PowerPlex® 21 (STRmix v2.7.0)					
	13,15,16,17.3	19,20,24		14,15,17,18	10,11,12	11,12,21.3
4e	8,10,11,12	10,13,14		18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31		X,Y	11,12
	20,21,22,23	7,9,10	5,16,19		7,8,9	8,10,11
	16,17,18					
2XZ2VE	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
37NCHE	GlobalFiler™					
	[15],16,17.3	19,[20],24	14	[15],17,18	10,[11],12	
4e	10,12	10,13,[14]	13,15	18,20	9,11	12
	15,18	13,13.2,[14.2]	28,30	[12],15,16	X,[Y]	11,12
	21,22			16,30.2	7,8,[9]	[8],10,11
	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 4e - STR Results

3EYCEB	Identifiler® Plus (in house software)					
		19,24		17,18	10,12	
4e	10,12	10,13			9,11	12,12
	15,18	13,13.2	28,30		X,X	11,12
	21,22				7,8	10,11
	16,18					
3FXGXQ	GlobalFiler™					
	13,15,16,17.3	19,[20],24	[10],[11],14,14	[14],[15],17,18	10,[11],12	N/A
4e	[8],10,[11],12	10,13,[14]	13,14,15	18,20,22	9,11,[12],[14]	[9],[10],12,12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,X,[X],[Y]	11,12
	21,22,[23]	N/A	N/A	[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	[11]	N/A	N/A	[2]	
3K8X6T	PowerPlex® Fusion 6C					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	7,9,10	5,16,19	14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11	19	16		
3PKFLA	PowerPlex® Fusion (STRmix)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	7,9,10	5,16,19		7,8,9	8,10,11
	16,17,18	11				
3UHYQU	PowerPlex® Fusion 6C					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	7,10	5,16,19	14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11	19	16		
44X73N	PowerPlex® ESX16 FAST					
		19,[20],24	[10],[11],14	17,18		
4e		10,13,[14]	13,14,15	18,20,[22]		12
	15,18	13,13.2	28,30	[12],15,16	X,Y	
	21,22				7,8,[9]	
	16,17,18					
44ZZJ9	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	

TABLE 1

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

Item 4e - STR Results

4D2KJF	GlobalFiler™ (GeneMapper ID-X v1.4)					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	[11]			[2]	
4KMGPQ	PowerPlex® Fusion 6C					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	7,9,10	5,16,19	14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11	19	16		
4PH8V3	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
4PV29G	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
4TWRVW	PowerPlex® Fusion 6C					
	16,17.3	19,24	14	17,18	10,12	
4e	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2	28,30	15,16	X	11,12
	21,22	7,10	16,19	16,30.2	7,8	10,11
	16,18	-	-	-		
6J7JWQ	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14,14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12,12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	[11]			[2]	

TABLE 1

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

Item 4e - STR Results

6J8EDC	ESI-17					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18		
4e		10,13,14	13,14,15	18,20,22		9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	
	20,21,22,23			(13),14,16,26.2,30.2	7,8,9	
	16,17,18					
6M6VTQ	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14,14	[14],[15],17,18	10,[11],12	
4e	[8],[10],[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12,12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,X,[Y]	11,12
	[20],[21],[22],[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	[11]			[2]	
6NGUMZ	GlobalFiler™ (STRmix)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	[8],[10],[11],12	10,13,14	13,14,15	18,20,[22]	9,11,12,14	[9],[10],12
	15,18	13,13.2,14.2	28,30,[31]	12,15,16	X,Y	11,12
	20,21,22,[23]			14,16,[26.2],30.2	7,8,9	[8],10,11
	16,17,18	[11]			2	
6TXYJA	PowerPlex® Fusion (STRmix)					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,12	
4e	[8],[10],[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],[21],[22],[23]	7,[9],10	[5],16,19		7,8,[9]	[8],10,11
	16,[17],18	[11]				
7BCTTV	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
4e	[8],[10],[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	11			2	
7BPM6P	PowerPlex® Fusion 6C					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	7,9,10	5,16,19	14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11	19	16		

TABLE 1

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

Item 4e - STR Results

7H8Z7A	NGM					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18		
4e		10,13,14	13,14,15	18,20,22		9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	
	20,21,22,23				7,8,9	
	16,17,18					
7J67PN	PowerPlex® Fusion					
	13,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	10,11,12	10,13,14	13,14,15	18,20,22	9,11	9,10,12
	15,18	13,13.2,14.2	28,30,31	15,16	X,Y	11,12
	20,21,22	7,10	5,16,19		7,8,9	8,10,11
	16,17,18					
7LQTGC	GlobalFiler™					
	[13],[15],16,17.3	19,24	[10],[11],14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	[11]			[2]	
7Q27YB	Identifiler® Plus					
		19,20,24		14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14			9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31		X,Y	11,12
	20,21,22,23				7,8,9	8,10,11
	16,17,18					
7UKXBD	GlobalFiler™ (STRmix)					
	[13],15,16,17.3	19,20,24	10,11,14	[14],15,17,18	10,11,12	
4e	[8],10,11,12	10,13,14	13,14,15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,14.2	28,30,[31]	12,15,16	X,[Y]	11,12
	21,22,23			[14],16,[26.2],30.2	7,8,9	[8],10,11
	16,17,18	[11]			2	
7WPLRN	PowerPlex® Fusion 6C (STRmix V2.5.11 for Epi fraction)					
	15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	7,9,10	5,16,19	14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11	NR	16		
7WRFA9	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	

TABLE 1

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

Item 4e - STR Results

7XL23Z	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
84KBKC	PowerPlex® Fusion 6C					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	10,11,12	10,13,14	13,14,15	18,20,22	9,11,12	9,10,12
	15,18	13,13.2,14.2	28,30,31	15,16	X,Y	11,12
	20,21,22,23	7,9,10	5,16,19	14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11		16		
88L28Q	Investigator® 24plex (TrueAllele)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11				
8BRGLA	Investigator® 24plex QS					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	N/A
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	N/A	N/A	14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11	N/A	N/A	N/A	
8JZ9RX	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
8KUYWD	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14,14	[14],[15],17,18	10,12	
4e	[8],10,12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12,12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,X,[Y]	11,12
	[20],[21],[22],[23]			[14],[16],[26.2],30.2	7,8,[9]	[8],10,11
	16,17,18	11			2	
8RC8LA	Identifiler® Plus					
		19,20,24		14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14			9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31		X,Y	11,12
	20,21,22,23				7,8,9	8,10,11
	16,17,18					

TABLE 1

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

Item 4e - STR Results

92WYK7	PowerPlex®					
	13,15,16,17.3	(14),19,20,24	10,11,14	14,15,17,18		
4e		10,13,14	13,14,15	18,20,22		9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16		
	20,21,22,23			14,16,26.2,30.2	7,8,9	
	16,17,18					
93U44L	PowerPlex® Fusion 6C					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	7,9,10	5,16,19	14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11	19	16		
9FGDN7	PowerPlex® Fusion (STRmix)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	7,9,10	5,16,19		7,8,9	8,10,11
	16,17,18	11				
9JC8L8	GlobalFiler™					
	[13,15],16,17.3	19,[20],24	[10,11],14	[14,15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12,14]	[9,10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	11			2	
9XWMP7	GlobalFiler™ (TrueAllele)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
9YUT8L	PowerPlex® Fusion 6C					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	7,9,10	16,19	14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11	19	16		
A6PEB7	GlobalFiler™					
	[13,15],16,17.3	19,[20],24	[10,11],14	[14,15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12,14]	[9,10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	11			2	

TABLE 1

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

Item 4e - STR Results

A9A8L9	GlobalFiler™					
	16,17.3	19,[20],24	[10],[11],14	17,18	10,12	
4e	[8],10,[11],12	10,13,[14]	13,15	18,20	9,11,[12]	[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	11			---	
AQTZCX	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
BF3Y88	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
4e	10,[11],12	10,13,[14]	13,15	18,20,[22]	9,11,[12],[14]	12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22			14,16,26.2,30.2	7,8,[9]	[8],10,11
	16,[17],18	[11]			[2]	
CFL3F8	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11				
CHN3F6	Identifiler® Plus					
		19,20,24		14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14			9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31		X,Y	11,12
	20,21,22,23				7,8,9	8,10,11
	16,17,18					
CHRHUQ	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	11			2	
CL9VQ8	GlobalFiler™ (STRmix)					
	13,16,17.3	19,20,24	10,11,14	14,17,18	10,11,12	
4e	8,10,12	10,13,14	13,15	18,20	9,11,14	10,12
	15,18	13,13.2,14.2	28,30	12,15,16	X,Y	11,12
	21,22			14,16,30.2	7,8,9	8,10,11
	16,17,18	11			2	

TABLE 1

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

Item 4e - STR Results

CMMG3U	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e 8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
D6HANR	GlobalFiler™ (STRmix)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e 8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
DARHVN	GlobalFiler™ (STRmix)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e 8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
DCGWD8	GlobalFiler™ (STRmix)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e 8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
DDR2Q	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e 8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
DE2P8L	GlobalFiler™					
	13,15,16,17.3	19,24	10,11,14	14,17,18	10,12	
	4e 10,12	10,13,14	13,14,15	18,20	9,11,12,14	9,12
	15,18	13,13.2	28,29,30	15,16	X,Y	11,12
	20,21,22,23			16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11				
DGCML4	Identifiler® Plus (DNA VIEW ver37.33)					
		19,24		17,18	10,12	
	4e 10,12	10,13			9,11	12
	15,18	13,13.2	28,30		X,X	11,12
	21,22				7,8	10,11
	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

DJZYKA	PowerPlex® Fusion 5C					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	7,9,10	5,16,19		7,8,9	8,10,11
	16,17,18	11				
DP7TE6	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,11,12	
4e	[8],10,[11],12	10,13,[14]	13,14,15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,9	[8],10,11
	16,17,18	11			2	
DQDBDZ	PowerPlex® Fusion (STRmix)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	7,9,10	5,16,19		7,8,9	8,10,11
	16,17,18	11				
DRTAWP	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
DTTAAW	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
DVW7FT	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
DYWC2Q	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,9	[8],10,11
	16,17,18	11			2	

TABLE 1

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

Item 4e - STR Results

DZ6LPG	PowerPlex® Fusion					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,X,[Y]	11,12
	20,21,22,23	7,9,10	5,16,19		7,8,9	8,10,11
	16,17,18	11				
EK74B3	GlobalFiler™					
	16,17.3	19,20,24	11,14	14,15,17,18	10,12	
4e	8,10,11,12	10,13,14	13,15	18,20	9,11	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X	11,12
	20,21,22,23			14,16,30.2	7,8,9	8,10,11
	16,17,18					
EPZX94	GlobalFiler™ (STRmix)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
EUG7W4	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	10,11,12	10,13	13,14,15	18,20,22	9,11	9,10,12
	15,18	13,13.2,14.2	28,30	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11				
F6BWYM	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,9	[8],10,11
	16,[17],18	11			2	
FBCD7L	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
FFUF7	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14,14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[14]	[9],[10],12,12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	11			2	

TABLE 1

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

Item 4e - STR Results

FGLCYZ	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e 8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
G243C2	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e 8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
G2K4CH	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e 8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
G7ZP8B	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14,14	[14],[15],17,18	10,[11],12	
	4e [8],10,12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12,12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	[11]		[2]		
GAKERN	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e 8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
GECLAW	GlobalFiler™ (BulletProof)					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
	4e [8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12]	[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	11			2	
GET334	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e 8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	

TABLE 1

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

Item 4e - STR Results

GFBRTC	GlobalFiler™ (Genemapper)					
	[13],[15],16,17.3	19,[20],24	[10],[11],14,14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],12,12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,X,[X],[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	[11]			[2]	
GNJN93	GlobalFiler™					
	16,17.3	19,20,24	10,11,14	14,17,18	10,12	
4e	10,12	10,13	13,15	18,20	9,11	12
	15,18	13,13.2,14.2	28,30	12,15,16	X	11,12
	20,21,22,23			14,16,30.2	7,8,9	8,10,11
	16,17,18	11				
GV2WWY	GlobalFiler™ CASEWORK					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
GVY3FE	PowerPlex® Fusion 5C					
	[13],[15],16,17.3	19,[20],24	[10],14,14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12]	[9],[10],12,12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,X,[Y]	11,12
	[20],21,22,[23]	7,10	16,19		7,8,[9]	[8],10,11
	16,[17],18	11				
GXP9V6	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
J39ARY	GlobalFiler™ (STRmix)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,30.2	7,8,9	8,10,11
	16,17,18	11			2	
J3R9QH	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	11			2	

TABLE 1

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

Item 4e - STR Results

J6YCY9	GlobalFiler™ (STRmix)					
	[13,15],16,17.3	19,[20],24	[10,11],14	[14,15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],14	[9,10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	[11]			[2]	
J6Z7GT	PowerPlex® Fusion (STRmix)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	7,9,10	5,16,19		7,8,9	8,10,11
	16,17,18	11				
J79LMY	GlobalFiler™ (STRmix)					
	[13],15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	[8],10,11,12	10,13,14	13,14,15	18,20,[22]	9,11,[12],14	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	12,15,16	X,Y	11,12
	21,22,[23]			[14],16,[26.2],30.2	7,8,9	8,10,11
	16,17,18	11			2	
JL9HRJ	GlobalFiler™					
	13,15,16,17.3	19,20,24	[10],[11],14	14,15,17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,22	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	20,21,22,23			[14],16,30.2	7,8,9	8,10,11
	16,17,18	11			2	
JMZJPU	PowerPlex® Fusion (STRmix)					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]	7,[9],10	[5],16,19		7,8,[9]	[8],10,11
	16,[17],18	[11]				
JPNVNZ	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11				
JYPHFW	Investigator® 24plex QS					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	N/A
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	N/A	N/A	14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	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 4e - STR Results

JZMNYC	PowerPlex® Fusion 6C					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	7,9,10	5,16,19	14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11	19	16		
K2U37H	PowerPlex® Fusion 6C					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]	7,[9],10	[5],16,19	[14],16,[26.2],30.2	7,8,9	[8],10,11
	16,[17],18	11	19	16		
K38WJX	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
4e	10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,14.2	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,9	[8],10,11
	16,17,18	[11]			[2]	
K8Y8UV	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
K9WCCB	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
KB33DY	GlobalFiler™					
	13,16,17.3	19,20,24	10,11,14	14,15,17,18	10,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11				
KE3777	Identifiler® Plus					
		19,20,24		14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14			9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31		X,Y	11,12
	20,21,22,23				7,8,9	8,10,11
	16,17,18					

TABLE 1

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

Item 4e - STR Results

KFTCMW	GlobalFiler™ (STRmix)						
		13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,12	
	4e	8,10,11,12	10,13,14	13,14,15	18,20	9,11	9,10,12
		15,18	13,13.2,14.2	28,30,31	12,15,16	X	11,12
		20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2		
KKM7KX	GlobalFiler™ (STRmix)						
		13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
		15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
		20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2		
KPHVAH	PowerPlex® Fusion						
		[15],16,17.3	19,24	[10],14,14	[14,15],17,18	10,12	
	4e	10,12	10,13,[14]	13,[14],15	18,20	9,11	[9,10],12,12
		15,18	13,13.2	28,30	15,16	X,X,[Y]	11,12
		21,22	7,10	16,19		7,8,[9]	[8],10,11
	16,18						
KWHF88	PowerPlex® Fusion 6C						
		[13],16,17.3	19,[20],24	[10],[11],14,14	[14],[15],17,18	10,12	
	4e	10,12	10,13,[14]	13,15	18,20,[22]	9,11,[12],[14]	[9],[10],12,12
		15,18	13,13.2,[14.2]	28,30	[12],15,16	X,X,[Y]	11,12
		21,22,[23]	7,10	[5],16,19	[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	[11]	ND	[16]			
KY9LNX	GlobalFiler™						
		[13],[15],16,17.3	19,24	[10],[11],14	17,18	10,12	
	4e	[8],10,[11],12	10,13,[14]	13,15	18,20,[22]	9,11,[12],[14]	[9],12
		15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
		21,22			[14],16,[26.2],30.2	7,8	[8],10,11
	16,[17],18	--			[2]		
LD6ZNQ	GlobalFiler™						
		13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
		15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
		20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2		
LDG22D	PowerPlex® 5C						
		16,17.3	19,24	14	17,18	10,12	--
	4e	10,12	10,13	13,15	18,20	9,11	12
		15,18	13,13.2	28,30	15,16	X	11,12
		21,22	7,10	16,19	--	7,8	10,11
	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

LG8UNG	PowerPlex® Fusion					
	[15],16,17.3	19,[20],24	14,14	[15],17,18	10,12	
	4e 10,12	10,13,[14]	13,15	18,20	9,11	12,12
	15,18	13,13.2	28,30,[31]	[12],15,16	X,X,[Y]	11,12
	21,22,[23]	7,10	16,19		7,8,[9]	[8],10,11
	16,[17],18					
LMR4MD	Identifiler® Plus					
		19,[20],24		[14],[15],17,18	10,[11],12	
	4e [8],10,[11],12	10,13,[14]			9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]		X,[Y]	11,12
	[20],21,22,[23]				7,8,[9]	[8],10,11
	16,[17],18					
LR42ZR	PowerPlex® Fusion 5C (STRmix)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e 8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	7,9,10	5,16,19		7,8,9	8,10,11
	16,17,18	11				
LWKANR	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e 8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11		2		
M2MXJ6	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14,14	[14],[15],17,18	10,[11],12	NA
	4e [8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12,12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,X,[Y]	11,12
	[20],21,22,[23]	NA	NA	[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	[11]	NA	2		
MZB4YX	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e 8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11		2		
N4RMJT	PowerPlex® ESI17_FAST					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18		
	4e 10,13,[14]		13,[14],15	18,20,[22]		[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,9	
	16,17,18					

TABLE 1

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

Item 4e - STR Results

N686KD	GlobalFiler™						
		[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
	4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20	9,11,[12],[14]	[9],[10],12
		15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
		21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	11			2		
N7WB24	GlobalFiler™						
		[13,15],16,17.3	19,[20],24	[10,11],14	[14,15],17,18	10,[11],12	
	4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12,14]	[9,10],12
		15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
		21,22,[23]			[14],16,[26.2],30.2	7,8,9	[8],10,11
	16,[17],18	[11]			[2]		
N7Y6HN	PowerPlex® Fusion (STRmix)						
		13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
		15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
		20,21,22,23	7,9,10	5,16,19		7,8,9	8,10,11
	16,17,18	11					
NMLLN7	PowerPlex® Fusion 6C						
		13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
		15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
		20,21,22,23	7,9,10	5,16,19	14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11	19	16			
NPQBNT	GlobalFiler™						
		13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
		15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
		20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2		
P9ZQKE	GlobalFiler™						
		13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
		15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
		20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2		
PCGVGN	GlobalFiler™						
		[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
	4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
		15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
		[20],21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	[11]			[2]		

TABLE 1

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

Item 4e - STR Results

PDAQ4W	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	[11]			[2]	
Q3N3M4	PowerPlex® Fusion 6C					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	7,9,10	5,16,19	14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11	19	16		
Q3PW4N	NGM SElect					
	(13),16,17.3	19,(20),24	(10),14,14	(14),(15),17,18		
4e		10,13,(14)	13,(14),15	18,20,(22)		(9),12,12
	15,18	13,13.2,(14.2)	28,30	(12),15,16	X,X,(Y)	
	21,22			(14),16,(26.2),30.2	7,8,(9)	
	16,(17),18					
Q6F222	PowerPlex® Fusion 6C					
	[13],16,17.3	19,[20],24	[10],14,14	[14],[15],17,18	10,12	
4e	[8],10,12	10,13,[14]	13,[14],15	18,20,[22]	9,11	[9],[10],12,12
	15,18	13,13.2	28,30	[12],15,16	X,X,[Y]	11,12
	21,22,[23]	7,10	16,19	[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	[11]	ND	[16]		
R94AD8	GlobalFiler™ CASEWORK					
		19,[20],24	[10,11],14	[14,15],17,18	10,[11],12	
4e		10,13,[14]		18,20,[22]		
	15,18	13,13.2,[14.2]	28,30,[31]	[12,15],16	X,Y	11,12
	[20],21,22,[23]				7,8,[9]	[8],10,11
	16,[17],18				2	
RCU2ZB	PowerPlex® Fusion					
	[13],16,17.3	19,24	[10],14,14	[14,15],17,18	10,12	
4e	10,12	10,13,[14]	13,[14],15	18,20	9,11	[9,10],12,12
	15,18	13,13.2	28,30	15,16	X,X	11,12
	[20],21,22	7,10	16,19		7,8,[9]	[8],10,11
	16,[17],18					
RDL3XL	GlobalFiler™					
	[13,15],16,17.3	19,[20],24	[10,11],14	[14,15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12,14]	[9,10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,9	[8],10,11
	16,[17],18	[11]			[2]	

TABLE 1

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

Item 4e - STR Results

RKNC4E	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
RWFXAA	GlobalFiler™ (STRmix)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20	9,11,12,14	9,12
	15,18	13,13.2,14.2	28,30	12,15,16	X,Y	11,12
	20,21,22,23			14,16,30.2	7,8,9	8,10,11
	16,17,18	11			2	
RYAMWC	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],[21],[22],[23]			[14],[16],[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	11			2	
RZDJYR	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18					
TBDAHE	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
TBTT3B	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
TLETY9	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	21,22,[23]			[14],[16],[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	11			2	

TABLE 1

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

Item 4e - STR Results

TQ74TJ	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
TTXZFR	GlobalFiler™					
	[13,15],16,17.3	19,[20],24	[10,11],14	[14,15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12,14]	[9,10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,9	[8],10,11
	16,[17],18	[11]			[2]	
TU4HF9	GlobalFiler™ (STRmix)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
TXP8ZL	PowerPlex® Fusion 5C (STRmix)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	7,9,10	5,16,19		7,8,9	8,10,11
	16,17,18	11				
TYZALK	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	[11]			[2]	
U2M9DN	PowerPlex® Fusion					
	[13],16,17.3	19,[20],24	14	[14],[15],17,18	10,12	
4e	10,12	10,13,[14]	13,15	18,20	9,11	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	15,16	X	11,12
	21,22	7,10	[5],16,19		7,8,[9]	[8],10,11
	16,[17],18					
UP8GRZ	PowerPlex® Fusion 6C					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23	7,9,10	5,16,19	14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11	19	16		

TABLE 1

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

Item 4e - STR Results

UVJ6PB	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
VE3TAM	GlobalFiler™					
	[13],[15],16,17.3	19,20,24	[10],[11],14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,14,15	18,20,22	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	21,22,[23]			[14],16,[26.2],30.2	7,8,9	[8],10,11
	16,17,18	11			2	
VHNAT8	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
VLR229	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	11			2	
VMGEJQ	PowerPlex® ESI Fast					
	(13,15),16,17.3	19,(20),24	(10,11),14,14	(14,15),17,18		
4e		10,13,(14)	13,(14),15	18,20,(22)		(9,10),12,12
	15,18	13,13.2,(14.2)	28,30,(31)	(12),15,16	X,X,(Y)	
	(20),21,22,(23)				7,8,9	
	16,17,18					
WQ4WP	GlobalFiler™					
	[13,15],16,17.3	19,[20],24	[10,11],14	[14,15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12,14]	[9,10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,9	8,10,11
	16,17,18	[11]			[2]	
YCKEA	GlobalFiler™ (STRmix)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	

TABLE 1

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

Item 4e - STR Results

W2VYHA	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e 8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
W364WY	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14,14	[14],[15],17,18	10,[11],12	N/A
	4e [8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12,12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,X,[Y]	11,12
	21,22,[23]	N/A	N/A	[14],16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],18	[11]	N/A	N/A	[2]	
W38YDJ	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e 8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
WDNHXF	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
	4e 8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
WEMNFV	Identifiler® Plus					
		19,20,24		14,15,17,18	10,11,12	
	4e 8,10,12	10,13,14			9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31		X,Y	11,12
	20,21,22,23				7,8,9	8,10,11
	16,17,18					
WUA76P	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
	4e [8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,9	[8],10,11
	16,[17],18	11			2	
WXAHPZ	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12	
	4e [8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,9	[8],10,11
	16,[17],18	[11]			[2]	

TABLE 1

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

Item 4e - STR Results

X8U9ZM	GlobalFiler™						
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12		
	4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y		11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9		8,10,11
	16,17,18	11			2		
XKHBHE	GlobalFiler™						
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12		
	4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y		11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9		8,10,11
	16,17,18	11			2		
XLFF2U	GlobalFiler™						
	[13],[15],16,17.3	19,[20],24	[10],[11],14,14	[14],[15],17,18	10,[11],12		N/A
	4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12,12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,X,[Y]		11,12
	21,22,[23]	N/A	N/A	[14],16,[26.2],30.2	7,8,[9]		[8],10,11
	16,[17],18	[11]	N/A	N/A	[2]		
XP26L8	GlobalFiler™						
	13,16,17.3	19,20,24	10,11,14	14,15,17,18	10,12		
	4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y		11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9		8,10,11
	16,17,18	11			2		
XQR4Z6	PowerPlex® Fusion 6C						
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[14],[15],17,18	10,[11],12		Not Tested
	4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]		11,12
	[20],21,22,[23]	7,[9],10	[5],16,19	[14],16,[26.2],30.2	7,8,[9]		[8],10,11
	16,[17],18	11	19	16	Not Tested		
XTZGG8	GlobalFiler™						
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12		
	4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y		11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9		8,10,11
	16,17,18	11			2		
Y4DZCM	GlobalFiler™						
	[13],[15],16,17.3	19,[20],24	[10],[11],14,14	[14],[15],17,18	10,[11],12		
	4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12,12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,X,[Y]		11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,9		[8],10,11
	16,17,18	11			2		

TABLE 1

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

Item 4e - STR Results

Y7ZHU9	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
YBAVC7	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
YBW7BF	GlobalFiler™					
	[13,15],16,17.3	19,[20],24	[10,11],14	[14,15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12,14]	[9,10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,9	8,10,11
	16,17,18	[11]			[2]	
YJPEUK	GlobalFiler™					
	16,17.3	19,20,24	10,11,14	14,15,17,18	10,12	
4e	10,12	10,13,14	13,15	18,20	9,11	9,10,12
	15,18	13,13.2,14.2	28,30	12,15,16	X	11,12
	21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,18	11				
YRY38J	GlobalFiler™ (STRmix)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	[9],10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	[11]			2	
Z26AMJ	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11				
Z7X8DV	GlobalFiler™					
	[13],[15],16,17.3	19,[20],24	[10],[11],14,14	[14],[15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12],[14]	[9],[10],12,12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,9	[8],10,11
	16,[17],18	[11]			[2]	

TABLE 1

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

Item 4e - STR Results

Z9NDUL	NGM SElect					
	[13],[15],16,17.3	19,[20],24	[10],[11],14	[15],17,18		
4e		10,13,[14]	13,[14],15	18,20,[22]		[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	
	21,22			[14],16,[26.2],30.2	7,8,[9]	
	16,[17],18					
ZAYFFK	GlobalFiler™					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
ZB9KVU	PowerPlex® Fusion					
	[13,15],16,17.3	19,[20],24	[10,11],14,14	[14,15],17,18	10,[11],12	
4e	8,10,11,12	10,13,[14]	13,[14],15	18,20	9,11,14	[9,10],12,12
	15,18	13,13.2,[14.2]	28,30,31	[12],15,16	X,X,[Y]	11,12
	[20],21,22,[23]	7,9,10	[5],16,19		7,8,[9]	8,10,11
	16,[17],18	11				
ZDXQCK	GlobalFiler™					
	13,15,16,17.3	19,[20],24	[10,11],14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,[22]	9,11,12,14	[9,10],12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,[Y]	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	[11]			[2]	
ZFK9U6	GlobalFiler™ (STRmix)					
	13,15,16,17.3	19,20,24	10,11,14	14,15,17,18	10,11,12	
4e	8,10,11,12	10,13,14	13,14,15	18,20,22	9,11,12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,15,16	X,Y	11,12
	20,21,22,23			14,16,26.2,30.2	7,8,9	8,10,11
	16,17,18	11			2	
ZNJQB3	GlobalFiler™					
	[13],[15],16,17.3	19,24	[10],[11],14	[14],[15],17,18	10,[11],12	
4e	10,[11],12	10,13,[14]	13,[14],15	18,20	9,11,[12],[14]	[9],[10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,[9]	10,11
	16,[17],18				2	
ZPBQ9D	GlobalFiler™					
	[13,15],16,17.3	19,[20],24	[10,11],14	[14,15],17,18	10,[11],12	
4e	[8],10,[11],12	10,13,[14]	13,[14],15	18,20,[22]	9,11,[12,14]	[9,10],12
	15,18	13,13.2,[14.2]	28,30,[31]	[12],15,16	X,[Y]	11,12
	[20],21,22,[23]			[14],16,[26.2],30.2	7,8,9	[8],10,11
	16,17,18	[11]			[2]	

TABLE 1

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

Item 4e - STR Results

ZWNXQ3	GlobalFiler™					
	(13),(15),16,17.3	19,(20),24	(10),(11),14	(14),(15),17,18	10,(11),12	
4e	(8),10,(11),12	10,13,(14)	13,(14),15	18,20,(22)	9,11,(12),(14)	(9),(10),12
	15,18	13,13.2,(14.2)	28,30,(31)	(12),15,16	X,(Y)	11,12
	(20),21,22,(23)			(14),16,(26.2),30.2	7,8,9	(8),10,11
	16,(17),18	11			2	
ZYDC9K	GlobalFiler™					
	16,17.3	19,[20],24	[11],14	[14,15],17,18	10,12	
4e	10,12	10,13,[14]	13,15	18,20	9,11	12
	15,18	13,13.2,[14.2]	28,30	15,16	X,[Y]	11,12
	[20],21,22			16,[26.2],30.2	7,8,[9]	[8],10,11
	16,[17],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 4sp - STR Results

2ATKC6	GlobalFiler™					
		13,15	19,20	10,11	14,15	11,12
4sp		8,11	10,14	13,14	18,22	12,14
		15,18	13,14.2	30,31	12,16	X,Y
		20,23			14,26.2	9
		17	11			8
						2
2B4HM2	GlobalFiler™					
		13,15	19,20	10,11	14,15	11,12
4sp		8,11	10,14	13,14	18,22	12,14
		15,18	13,14.2	30,31	12,16	X,Y
		20,23			14,26.2	9
		17	11			8
						2
2KA6V2	GlobalFiler™					
		13,15	19,20	10,11	14,15	11,12
4sp		8,11	10,14	13,14	18,22	12,14
		15,18	13,14.2	30,31	12,16	X,Y
		20,23			14,26.2	9
		17	11			8
						2
2KTXNY	GlobalFiler™					
		13,15	19,20	10,11	14,15	11,12
4sp		8,11	10,14	13,14	18,22	12,14
		15,18	13,14.2	30,31	12,16	X,Y
		20,23			14,26.2	9,9
		17,17	11			8,8
						2
2QJL6P	PowerPlex® 21 (STRmix v2.7.0)					
		13,15	19,20		14,15	11,12
4sp		8,11	10,14		18,22	12,14
		15,18	13,14.2	30,31		X,Y
		20,23	9,10	5,16		9,9
		17,17				8,8
2XZ2VE	GlobalFiler™					
		13,15	19,20	10,11	14,15	11,12
4sp		8,11	10,14	13,14	18,22	12,14
		15,18	13,14.2	30,31	12,16	X,Y
		20,23			14,26.2	9,9
		17,17	11			8,8
						2
37NCHE	GlobalFiler™					
		13,15	19,20	10,11	14,15	11,12
4sp		8,11,[12]	10,14	13,14	18,22	12,14
		15,18	13,14.2	30,31	12,16	X,Y
		20,23			14,26.2	9
		17	11			8
						2

TABLE 1

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

Item 4sp - STR Results

3EYCEB	Identifiler® Plus (in house software)					
		19,20		14,15	11,12	
4sp	8,11	10,14			12,14	9,10
	15,18	13,14.2	30,31		X,Y	11,12
	20,23				9,9	8,8
	17,17					
3FXGXQ	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	N/A
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	N/A	N/A	14,26.2	9,9	8,8
	17,17	11	N/A	N/A	2	
3K8X6T	PowerPlex® Fusion 6C					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16	14,26.2	9,9	8,8
	17,17	11	19	16		
3PKFLA	PowerPlex® Fusion (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16		9	8
	17	11				
3UHQU	PowerPlex® Fusion 6C					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16	14,26.2	9,9	8,8
	17,17	11	19	16		
44X73N	PowerPlex® ESX16 FAST					
	13,15	19,20	10,11	14,15		
4sp		10,14	13,14	18,22		9,10
	15,18	13,14.2	30,31	12,16	X,Y	
	20,23				9	
	17					
44ZZJ9	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	

TABLE 1

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

Item 4sp - STR Results

4D2KJF	GlobalFiler™ (GeneMapper ID-X v1.4)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9,9	8,8
	17,17	11			2	
4KMGPQ	PowerPlex® Fusion 6C					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16	14,26.2	9,9	8,8
	17,17	11	19	16		
4PH8V3	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
4PV29G	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
4TWRVW	PowerPlex® Fusion 6C					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16	14,26.2	9	8
	17	11	19	16		
6J7JWQ	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9,9	8,8
	17,17	11			2	
6J8EDC	ESI-17					
	13,15	19,20	10,11	14,15		
4sp		10,14	13,14	18,22		9,10
	15,18	13,14.2	30,31	12,16	X,Y	
	20,23			14,26.2	9,9	
	17,17					

TABLE 1

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

Item 4sp - STR Results

6M6VTQ	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9,9	8,8
	17,17	11			2	
6NGUMZ	GlobalFiler™ (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
6TXYJA	PowerPlex® Fusion (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16		9	8
	17	11				
7BCTTV	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
7BPM6P	PowerPlex® Fusion 6C					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16	14,26.2	9,9	8,8
	17,17	11	19	16		
7H8Z7A	NGM					
	13,15	19,20	10,11	14,15		
4sp		10,14	13,14	18,22		9,10
	15,18	13,14.2	30,31	12,16	X,Y	
	20,23				9,9	
	17,17					
7J67PN	PowerPlex® Fusion					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16		9,9	8,8
	17,17	11				

TABLE 1

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

Item 4sp - STR Results

7LQTGC	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9,9	8,8
	17,17	11			2	
7Q27YB	Identifiler® Plus					
		19,20		14,15	11,12	
4sp	8,11	10,14			12,14	9,10
	15,18	13,14.2	30,31		X,Y	11,12
	20,23				9	8
	17					
7UKXBD	GlobalFiler™ (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
7WPLRN	PowerPlex® Fusion 6C (STRmix V2.5.11 for Epi fraction)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16	14,26.2	9,9	8,8
	17,17	11	19	16		
7WRFA9	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
7XL23Z	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
84KBKC	PowerPlex® Fusion 6C					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16	14,26.2	9,9	8,8
	17,17	11	19	16		

TABLE 1

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

Item 4sp - STR Results

88L28Q	Investigator® 24plex (TrueAllele)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9,9	8,8
	17,17	11				
8BRGLA	Investigator® 24plex QS					
	13,15	19,20	10,11	14,15	11,12	N/A
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	N/A	N/A	14,26.2	9,9	8,8
	17,17	11	N/A	N/A	N/A	
8JZ9RX	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
8KUYWD	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9,9	8,8
	17,17	11			2	
8RC8LA	Identifiler® Plus					
		19,20		14,15	11,12	
4sp	8,11	10,14			12,14	9,10
	15,18	13,14.2	30,31		X,Y	11,12
	20,23				9	8
	17					
92WYK7	PowerPlex®					
	13,15	19,20	10,11	14,15		
4sp		10,14	13,14	18,22		9,10
	15,18	13,14.2	30,31	12,16	X,Y	
	20,23			14,26.2	9,9	
	17,17					
93U44L	PowerPlex® Fusion 6C					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16	14,26.2	9,9	8,8
	17,17	11	19	16		

TABLE 1

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

Item 4sp - STR Results

9FGDN7	PowerPlex® Fusion (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16		9	8
	17	11				
9JC8L8	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9,9	8,8
	17,17	11			2	
9XWMP7	GlobalFiler™ (TrueAllele)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
9YUT8L	PowerPlex® Fusion 6C					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16	14,26.2	9,9	8,8
	17,17	11	19	16		
A6PEB7	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9,9	8,8
	17,17	11			2	
A9A8L9	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9,9	8,8
	17,17	11			2	
AQTZCX	GlobalFiler™					
	13,15,16	19,20,24	10,11,14	14,15,17,18	11,12	
4sp	8,10,11	10,13,14	13,14	18,22	12,14	9,10,12
	15,18	13,13.2,14.2	28,30,31	12,16	X,Y	11,12
	20,21,22,23			14,26.2	7,8,9	8
	17	11			2	

TABLE 1

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

Item 4sp - STR Results

BF3Y88	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9,9	8,8
		17,17	11			2	
CFL3F8	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	
CHN3F6	Identifiler® Plus						
			19,20		14,15	11,12	
	4sp	8,11	10,14			12,14	9,10
		15,18	13,14.2	30,31		X,Y	11,12
		20,23				9	8
		17					
CHRHUQ	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	
CL9VQ8	GlobalFiler™ (STRmix)						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	
CMMG3U	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	
D6HANR	GlobalFiler™ (STRmix)						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	

TABLE 1

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

Item 4sp - STR Results

DARHVN	GlobalFiler™ (STRMix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
DCGW8	GlobalFiler™ (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
DDR2Q	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
DE2P8L	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9,9	8,8
	17,17	11			2	
DGCML4	Identifiler® Plus (DNA VIEW ver37.33)					
		19,20		14,15	11,12	
4sp	8,11	10,14			12,14	9,10
	15,18	13,14.2	30,31		X,Y	11,12
	20,23				9	8
	17					
DJZYKA	PowerPlex® Fusion 5C					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16		9,9	8,8
	17,17	11				
DP7TE6	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	

TABLE 1

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

Item 4sp - STR Results

DQDBDZ	PowerPlex® Fusion (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16		9	8
	17	11				
DRTAWP	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
DTTAAW	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
DVW7FT	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
DYWC2Q	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
DZ6LPG	PowerPlex® Fusion					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16		9,9	8,8
	17,17	11				
EK74B3	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	

TABLE 1

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

Item 4sp - STR Results

EPZX94	GlobalFiler™ (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
EUG7W4	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
F6BWYM	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	10,11			2	
FBCD7L	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
FFUFB7	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9,9	8,8
	17,17	11			2	
FGLCYZ	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9,9	8,8
	17,17	11			2	
G243C2	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	

TABLE 1

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

Item 4sp - STR Results

G2K4CH	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9,9	8,8
		17,17	11			2	
G7ZP8B	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9,9	8,8
		17,17	11			2	
GAKERN	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	
GECLAW	GlobalFiler™ (BulletProof)						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	28,30,31	12,16	X,Y	11,12
		20,23			14,26.2	9,9	8,8
		17,17	11			2	
GET334	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	
GFBRTC	GlobalFiler™ (Genemapper)						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,16.2	9,9	8,8
		17,17	11			2	
GNJN93	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	

TABLE 1

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

Item 4sp - STR Results

GV2WWY	GlobalFiler™ CASEWORK					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9,9	8,8
	17,17	11			2	
GVY3FE	PowerPlex® Fusion 5C					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16		9,9	8,8
	17,17	11				
GXP9V6	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
J39ARY	GlobalFiler™ (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
J3R9QH	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
J6YCY9	GlobalFiler™ (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9,9	8,8
	17,17	11			2	
J6Z7GT	PowerPlex® Fusion (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16		9	8
	17	11				

TABLE 1

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

Item 4sp - STR Results

J79LMY	GlobalFiler™ (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
JL9HRJ	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	10,11			2	
JMZJPU	PowerPlex® Fusion (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16		9	8
	17	11				
JPNVNZ	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
JYPHFW	Investigator® 24plex QS					
	13,15	19,20	10,11	14,15	11,12	N/A
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	N/A	N/A	14,26.2	9,9	8,8
	17,17	11	N/A	N/A	N/A	
JZMNYC	PowerPlex® Fusion 6C					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16	14,26.2	9,9	8,8
	17,17	11	19	16		
K2U37H	PowerPlex® Fusion 6C					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16	14,26.2	9,9	8,8
	17,17	11	19	16		

TABLE 1

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

Item 4sp - STR Results

K38WJX	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	
K8Y8UV	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9,9	8,8
		17,17	11			2	
K9WCCB	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9,9	8,8
		17,17	11			2	
KB33DY	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	
KE3777	Identifiler® Plus						
			19,20		14,15	11,12	
	4sp	8,11	10,14			12,14	9,10
		15,18	13,14.2	30,31		X,Y	11,12
		20,23				9,9	8,8
		17,17					
KFTCMW	GlobalFiler™ (STRmix)						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	
KKM7KX	GlobalFiler™ (STRmix)						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	9,12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	

TABLE 1

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

Item 4sp - STR Results

KPHVAH	PowerPlex® Fusion					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16		9,9	8,8
	17,17	11				
KWHF88	PowerPlex® Fusion 6C					
	13,15,[17.3]	19,20	10,11,[14]	14,15	[10],11,12	
4sp	8,11	10,14	13,14	18,[20],22	[9],12,14	9,10,[12]
	15,18	13,[13.2],14.2	[28],30,31	12,16	X,Y	11,12
	20,[21],23	[7],9,10	5,16,[19]	14,26.2,[30.2]	9,9	8,8,[10]
	17,17	11	19	16		
KY9LNX	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9,9	8,8
	17,17	11			2	
LD6ZNQ	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
LDG22D	PowerPlex® 5C					
	13,15	19,20	10,11	14,15	11,12	--
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16	--	9	8
	17	11	--	--	--	
LG8UNG	PowerPlex® Fusion					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16		9,9	8,8
	17,17	11				
LMR4MD	Identifiler® Plus					
		19,20		14,15	11,12	
4sp	8,11	10,14			12,14	9,10
	15,18	13,14.2	30,31		X,Y	11,12
	20,23				9,9	8,8
	17,17					

TABLE 1

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

Item 4sp - STR Results

LR42ZR	PowerPlex® Fusion 5C (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16		9	8
	17	11				
LWKANR	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
M2MXJ6	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	NA
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	NA	NA	14,26.2	9,9	8,8
	17,17	11	NA	NA	2	
MZB4YX	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9,9	8,8
	17,17	11			2	
N4RMJT	PowerPlex® ESI17_FAST					
	13,15	19,20	10,11	14,15		
4sp		10,14	13,14	18,22		9,10
	15,18	13,14.2	30,31	12,16	X,Y	
	20,23			14,26.2	9,9	
	17,17					
N686KD	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
N7WB24	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9,9	8,8
	17,17	11			2	

TABLE 1

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

Item 4sp - STR Results

N7Y6HN	PowerPlex® Fusion (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16		9	8
	17	11				
NMLLN7	PowerPlex® Fusion 6C					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16	14,26.2	9,9	8,8
	17,17	11	19	16		
NPQBNT	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
P9ZQKE	GlobalFiler™					
	13,15	19,20	10,11	14,15,16	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18,19	13,14.2	28,30,31	12,16	X,Y	11,12
	20,21,23			14,26.2	9	8
	17	11			2	
PCGVGN	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
PDAQ4W	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
Q3N3M4	PowerPlex® Fusion 6C					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16	14,26.2	9,9	8,8
	17,17	11	19	16		

TABLE 1

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

Item 4sp - STR Results

Q3PW4N	NGM SElect					
		13,15	19,20	10,11	14,15	
4sp			10,14	13,14	18,22	9,10
		15,18	13,14.2	30,31	12,16	X,Y
		20,23			14,26.2	9,9
		17,17				
Q6F222	PowerPlex® Fusion 6C					
		13,15,[16]	19,20,[24]	10,11,[14]	14,15	11,12
4sp		8,11,[12]	10,14	13,14	18,22	[9],12,14
		15,18	13,14.2	[28],30,31	12,16	X,Y
		20,23	9,10	5,16	14,[16],26.2	9,9
		17,17	11	19	16	8,8,[11]
R94AD8	GlobalFiler™ CASEWORK					
		13,15	18,20	10,11	14,15	11,12
4sp		8,11	10,14	13,14	18,22	12,14
		15,18	13,14.2	30,31	12,16	X,Y
		20,23			14,26.2	9,9
		17,17	11,11			2
RCU2ZB	PowerPlex® Fusion					
		13,15	19,20	10,11	14,15	11,12
4sp		8,11	10,14	13,14	18,22	12,14
		15,18	13,14.2	30,31	12,16	X,Y
		20,23	9,10	5,16		9,9
		17,17	11			8,8
RDL3XL	GlobalFiler™					
		13,15	19,20	10,11	14,15	11,12
4sp		8,11	10,14	13,14	18,22	12,14
		15,18	13,14.2	30,31	12,16	X,Y
		20,23			14,26.2	9
		17	11			8
						2
RKNC4E	GlobalFiler™					
		13,15	19,20	10,11	14,15	11,12
4sp		8,11	10,14	13,14	18,22	12,14
		15,18	13,14.2	30,31	12,16	X,Y
		20,23			14,26.2	9
		17	11			8
						2
RWFXAA	GlobalFiler™ (STRmix)					
		13,15	19,20	10,11	14,15	11,12
4sp		8,11	10,14	13,14	18,22	12,14
		15,18	13,14.2	30,31	12,16	X,Y
		20,23			14,26.2	9
		17	11			8
						2

TABLE 1

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

Item 4sp - STR Results

RYAMWC	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
RZDJYR	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
TBDAHE	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
TBTT3B	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
TLETY9	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
TQ74TJ	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
TTXZFR	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	

TABLE 1

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

Item 4sp - STR Results

TU4HF9	GlobalFiler™ (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
TXP8ZL	PowerPlex® Fusion 5C (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16		9	8
	17	11				
TYZALK	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
U2M9DN	PowerPlex® Fusion					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16		9	8
	17	11				
UP8GRZ	PowerPlex® Fusion 6C					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16	14,26.2	9,9	8,8
	17,17	11	19	16		
UVJ6PB	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
VE3TAM	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	

TABLE 1

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

Item 4sp - STR Results

VHNAT8	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	5,3,9	8
	17	11			2	
VLR229	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
VMGEJQ	PowerPlex® ESI Fast					
	13,15	19,20	10,11	14,15		
4sp		10,14	13,14	18,22		9,10
	15,18	13,14.2	30,31	12,16	X,Y	
	20,23				9,9	
	17,17					
WQ4WP	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
YCKEA	GlobalFiler™ (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
W2VYHA	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
W364WY	GlobalFiler™					
	13,15	19,20,[24]	10,11	14,15	11,12	N/A
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	N/A	N/A	14,26.2	9,9	8,8
	17,17	11	N/A	N/A	2	

TABLE 1

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

Item 4sp - STR Results

W38YDJ	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9,9	8,8
		17,17	11			2	
WDNHXF	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	
WEMNFV	Identifiler® Plus						
			19,20		14,15	11,12	
	4sp	8,11	10,14			12,14	9,10
		15,18	13,14.2	30,31		X,Y	11,12
		20,23				9,9	8,8
		17,17					
WUA76P	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	
WXAHPZ	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	
X8U9ZM	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9,9	8,8
		17,17	11			2	
XKHBHE	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	

TABLE 1

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

Item 4sp - STR Results

XLFF2U	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	N/A
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23	N/A	N/A	14,26.2	9,9	8,8
		17,17	11	N/A	N/A	2	
XP26L8	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	
XQR4Z6	PowerPlex® Fusion 6C						
		13,15	19,20	10,11	14,15	11,12	Not Tested
	4sp	8,11	10,14	13,14	18,22	12,14	{9,10}
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23	9,10	5,16	14,26.2	9,9	8,8
		17,17	11	19	16	Not Tested	
XTZGG8	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	
Y4DZCM	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9,9	8,8
		17,17	11			2	
Y7ZHU9	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	
YBAVC7	GlobalFiler™						
		13,15	19,20	10,11	14,15	11,12	
	4sp	8,11	10,14	13,14	18,22	12,14	9,10
		15,18	13,14.2	30,31	12,16	X,Y	11,12
		20,23			14,26.2	9	8
		17	11			2	

TABLE 1

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

Item 4sp - STR Results

YBW7BF	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
YJPEUK	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
YRY38J	GlobalFiler™ (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
Z26AMJ	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
Z7X8DV	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9,9	8,8
	17,17	11			2	
Z9NDUL	NGM SElect					
	13,15,[16]	19,20,[24]	10,11	14,15		
4sp		10,[13],14	13,14	18,22		9,10
	15,18	13,14.2	[28],30,31	12,16	X,Y	
	20,23			14,[16],26.2	[8],9	
	[16],17					
ZAYFFK	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	

TABLE 1

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

Item 4sp - STR Results

ZB9KVU	PowerPlex® Fusion					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23	9,10	5,16		9,9	8,8
	17,17	11				
ZDXQCK	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
ZFK9U6	GlobalFiler™ (STRmix)					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
ZNJQB3	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
ZPBQ9D	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
ZWNXQ3	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	
ZYDC9K	GlobalFiler™					
	13,15	19,20	10,11	14,15	11,12	
4sp	8,11	10,14	13,14	18,22	12,14	9,10
	15,18	13,14.2	30,31	12,16	X,Y	11,12
	20,23			14,26.2	9	8
	17	11			2	

YSTR Amplification Kit(s) & Results

TABLE 2

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

Item 1 - YSTR Results

CHN3F6	Yfiler™								
1	-	-	-	-	-	-	-	-	-
CXTYDY	PowerPlex® Y 23								
1	-	-	-	-	-	-	-	-	-
DJZYKA	PowerPlex® Y 23								
1	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND
LDG22D	PowerPlex® Y 23								
1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
PCGVGN	Yfiler™ Plus								
1	-	-	-	-	-	-	-	-	-

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 2 - YSTR Results										
2ATKC6	Yfiler™ Plus									
	38	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	26	15	18.2	11	26	
	40	12		18	17	21	20		11	
2KA6V2	Yfiler™									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2			
							20		11	
2UX64X	PowerPlex® Y 23									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2		26	
		12	13	18	17		20	9	11	
3FXGXQ	Yfiler™									
	N/A	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	N/A	15	18.2	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	20	N/A	11	
3K8X6T	Yfiler™									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2			
							20		11	
3PKFLA	Yfiler™ Plus									
	38	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	26	15	18.2	11	26	
	40	12		18	17	21	20		11	
3UHYQU	Yfiler™									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2			
							20		11	
44ZZJ9	Yfiler™									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2			
							20		11	
4KMGPQ	Yfiler™									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2			
							20		11	
4PH8V3	Yfiler™ Plus									
	38	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	26	15	18.2	11	26	
	40	12		18	17	21	20		11	
4TWRVW	PowerPlex® Y 23									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2		26	
		12	13	18	17		20	9	11	
6J7JWQ	Yfiler™									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2			
							20		11	

TABLE 2

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

Item 2 - YSTR Results

6M6VTQ	Yfiler™								
		14	13,18	13	30	23	10	11	12
2		14	10	11	19	15	18.2		
							20		11
6TXYJA	Yfiler™ Plus								
		38	14	13,18	13	30	23	10	11
2		14	10	11	19	26	15	18.2	11
		40	12		18	17	21	20	11
7BCTTV	Yfiler™ Plus								
		38	14	13,18	13	30	23	10	11
2		14	10	11	19	26	15	18.2	11
		40	12		18	17	21	20	11
7BPM6P	Yfiler™								
		14	13,18	13	30	23	10	11	12
2		14	10	11	19	15	18.2		
							20		11
7J67PN	PowerPlex® Y 23								
		14	13,18	13	30	23	10	11	12
2		14	10	11	19	15	18.2		26
		12	13	18	17		20	9	11
7Q27YB	Yfiler™								
		14	13,18	13	30	23	10	11	12
2		14	10	11	19	15	18.2		
							20		11
7WPLRN	Yfiler™								
		14	13,18	13	30	23	10	11	12
2		14	10	11	19	15	18.2		
							20		11
7WRFA9	Yfiler™								
		14	13,18	13	30	23	10	11	12
2		14	10	11	19	15	18.2		
							20		11
7XL23Z	Yfiler™ Plus								
		38	14	13,18	13	30	23	10	11
2		14	10	11	19	26	15	18.2	11
		40	12		18	17	21	20	11
84KBKC	PowerPlex® Y 23								
		14	13,18	13	30	23	10	11	12
2		14	10	11	19	15	18.2		26
		12	13	18	17		20	9	11
8BRGLA	Yfiler™								
	N/A	14	13,18	13	30	23	10	11	12
2		14	10	11	19	N/A	15	18.2	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	20	N/A	11
8JZ9RX	Yfiler™ Plus								
		38	14	13,18	13	30	23	10	11
2		14	10	11	19	26	15	18.2	11
		40	12		18	17	21	20	11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 2 - YSTR Results										
8KUYWD	PowerPlex® Y 23									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2		26	
		12	13	18	17		20	9	11	
8RC8LA	Yfiler™									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2		26	
							20		11	
93U44L	Yfiler™									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2		26	
							20		11	
9FGDN7	Yfiler™ Plus									
	38	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	26	15	18.2	11	26	
	40	12		18	17	21	20		11	
9JC8L8	Yfiler™ Plus									
	38,38	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	26	15	18.2	11	26	
	40	12		18	17	21	20		11	
9YUT8L	Yfiler™									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2		26	
							20		11	
A4EGWN	PowerPlex® Y									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2		26	
		12	13	18	17		20	9	11	
A6PEB7	Yfiler™ Plus									
	38,38	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	26	15	18.2	11	26	
	40	12		18	17	21	20		11	
AQTZCX	Yfiler™ Plus									
	38	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	26	15	18.2	11	26	
	40	12		18	17	21	20		11	
CFL3F8	Yfiler™									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2		26	
							20		11	
CHN3F6	Yfiler™									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2		26	
							20		11	
CHRHUQ	Yfiler™ Plus									
	38	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	26	15	18.2	11	26	
	40	12		18	17	21	20		11	

TABLE 2

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

Item 2 - YSTR Results

CL9VQ8	PowerPlex® Y 23									
		14	13,18	13	30	23	10	11	12	
	2	14	10	11	19	15	18.2		26	
		12	13	18	17		20	9	11	
CMMG3U	Yfiler™ Plus									
		38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11	26
		40	12		18	17	21	20		11
CXTYDY	PowerPlex® Y 23									
		14	13,18	13	30	23	10	11	12	
	2	14	10	11	19	15	18.2		26	
		12	13	18	17		20	9	11	
DDR2Q	Yfiler™ Plus									
		38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11	26
		40	12		18	17	21	20		11
DGCML4	Yfiler™									
		14	13,18	13	30	23	10	11	12	
	2	14	10	11	19	15	18.2			
							20		11	
DJZYKA	PowerPlex® Y 23									
		14	13,18	13	30	23	10	11	12	
	2	14	10	11	19	15	18.2		26	
		12	13	18	17		20	9	11	
DQDBDZ	Yfiler™ Plus									
		38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11	26
		40	12		18	17	21	20		11
DVW7FT	Yfiler™ Plus									
		38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11	26
		40	12		18	17	21	20		11
DZ6LPG	PowerPlex® Y 23									
		14	13,18	13	30	23	10	11	12	
	2	14	10	11	19	15	18.2		26	
		12	13	18	17		20	9	11	
EK74B3	Yfiler™									
		14	13,18	13	30	23	10	11	12	
	2	14	10	11	19	15	18.2			
							20		11	
EPZX94	Yfiler™									
		14	13,18	13	30	23	10	11	12	
	2	14	10	11	19	15	18.2			
							20		11	
EUG7W4	Yfiler™									
		14	13,18	13	30	23	10	11	12	
	2	14	10	11	19	15	18.2			
							20		11	

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 2 - YSTR Results									
EV6JEL	PowerPlex® Y 23								
	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	15	18.2	26		
	12	13	18	17	20	9	11		
FBCD7L	Yfiler™								
	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	15	18.2	26		
						20		11	
FFUFB7	PowerPlex® Y 23								
	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	15	18.2	26		
	12	13	18	17	20	9	11		
G2K4CH	Yfiler™								
	38,38	14	13,18	13	30	23	10	11	12
2	14	10	11	19	26	15	18.2	11	26
	40	12	18	17	21	20			11
G7ZP8B	Yfiler™								
	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	15	18.2			
						20		11	
GAKERN	Yfiler™ Plus								
	38	14	13,18	13	30	23	10	11	12
2	14	10	11	19	26	15	18.2	11	26
	40	12	18	17	21	20			11
GFBRTC	Yfiler™								
	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	15	18.2			
						20		11	
GNJN93	Yfiler™								
	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	15	18.2			
						20		11	
GV2WWY	PowerPlex® Y 23								
	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	15	18.2	26		
	12	13	18	17	20	9	11		
GVY3FE	PowerPlex® Y 23								
	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	15	18.2	26		
	12	13	18	17	20	9	11		
HADWXG	PowerPlex® Y 23								
	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	15	18.2	26		
	12	13	18	17	20	9	11		
HDD8UG	Yfiler™ Plus.								
	38,38	14	13,18	13	30	23	10	11	12
2	14	10	11	19	26	15	18.2	11	26
	40	12	18	17	21	20			11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 2 - YSTR Results										
HTF7PT		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2		26	
		12	13	18	17		20	9	11	
J39ARY	Yfiler™									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2			
							20		11	
J6YCY9	Yfiler™ Plus									
	38	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	26	15	18.2	11	26	
	40	12		18	17	21	20		11	
J6Z7GT	Yfiler™ Plus									
	38	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	26	15	18.2	11	26	
	40	12		18	17	21	20		11	
JL9HRJ	Yfiler™ Plus									
	38	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	26	15	18.2	11	26	
	40	12		18	17	21	20		11	
JMZJPU	Yfiler™ Plus									
	38	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	26	15	18.2	11	26	
	40	12		18	17	21	20		11	
JPNVNZ	Yfiler™									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2			
							20		11	
JZMNYC	Yfiler™									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2			
							20		11	
K9WCCB	Yfiler™									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2			
							20		11	
KB33DY	Yfiler™									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2			
							20		11	
KE3777	PowerPlex® Y 23									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2		26	
		12	13	18	17		20	9	11	
KFTCMW	Yfiler™									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2			
							20		11	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 2 - YSTR Results										
KHGP6E	PowerPlex® Y 23									
		14	13,18	13	30	23	10	11	12	
	2	14	10	11	19	15	18.2,18.2	20	9	11
KPHVAH	PowerPlex® Y 23									
		14	13,18	13	30	23	10	11	12	
	2	14	10	11	19	15	18.2	20	9	11
LDG22D	PowerPlex® Y 23									
		--	13,18	13	30	23	10	11	12	
	2	14	10	11	19	--	18.2	--	26	
LG8UNG	PowerPlex® Y 23									
		14	13,18	13	30	23	10	11	12	
	2	14	10	11	19	15	18.2	20	9	11
LR42ZR	Yfiler™ Plus									
		38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11	26
LWKANR	Yfiler™									
		14	13,18	13	30	23	10	11	12	
	2	14	10	11	19	15	18.2	20	9	11
M2MXJ6	Yfiler™									
		NA	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	NA	15	18.2	NA	NA
MZB4YX	Yfiler™ Plus									
		38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11	26
N7Y6HN	Yfiler™ Plus									
		38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11	26
NLMF6Q	Yfiler™ Plus									
		38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11	26
NMLLN7	Yfiler™									
		14	13,18	13	30	23	10	11	12	
	2	14	10	11	19	15	18.2	20	9	11
P9ZQKE	Yfiler™ Plus									
		38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11	26

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

PCGVGN	Yfiler™ Plus								
	38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11
	40	12		18	17	21	20		11
PDAQ4W	Yfiler™ Plus								
	38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11
	40	12		18	17	21	20		11
Q3N3M4	Yfiler™								
		14	13,18	13	30	23	10	11	12
	2	14	10	11	19	15	18.2		
						20			11
Q3PW4N	PowerPlex® Y 23								
		14	13,18	13	30	23	10	11	12
	2	14	10	11	19	15	18.2		26
		12	13	18	17		20	9	11
RCU2ZB	PowerPlex® Y 23								
		14	13,18	13	30	23	10	11	12
	2	14	10	11	19	15	18.2		26
		12	13	18	17		20	9	11
RDL3XL	Yfiler™ Plus								
	38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11
	40	12		18	17	21	20		11
RKNC4E	Yfiler™ Plus								
	38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11
	40	12		18	17	21	20		11
RYAMWC	Yfiler™ Plus								
	38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11
	40	12		18	17	21	20		11
RZDJYR	Yfiler™								
		14	13,18	13	30	23	10	11	12
	2	14	10	11	19	15	18.2		
						20			11
TBDAHE	Yfiler™ Plus								
	38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11
	40	12		18	17	21	20		11
TBTT3B	Yfiler™ Plus								
	38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11
	40	12		18	17	21	20		11
TQ74TJ	Yfiler™								
		14	13,18	13	30	23	10	11	12
	2	14	10	11	19	15	18.2		
						20			11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 2 - YSTR Results										
TTXZFR	Yfiler™ Plus									
	38	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	26	15	18.2	11	26	
	40	12		18	17	21	20		11	
TXP8ZL	Yfiler™ Plus									
	38	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	26	15	18.2	11	26	
	40	12		18	17	21	20		11	
TYZALK	Yfiler™ Plus									
	38	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	26	15	18.2	11	26	
	40	12		18	17	21	20		11	
UHNZD4	PowerPlex® Y 23									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2		26	
		12	13	18	17		20	9	11	
UP8GRZ	Yfiler™									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2			
							20		11	
UP9B9K	Yfiler™ Plus									
	38	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	26	15	18.2	11	26	
	40	12		18	17	21	20		11	
UVJ6PB	Yfiler™ Plus									
	38	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	26	15	18.2	11	26	
	40	12		18	17	21	20		11	
VE3TAM	PowerPlex® Y 23									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2		26	
		12	13	18	17		20	9	11	
WVQ4WP	Yfiler™ Plus									
	38	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	26	15	18.2	11	26	
	40	12		18	17	21	20		11	
VYCKEA	PowerPlex® Y 23									
		14	13,18	13	30	23	10	11	12	
2	14	10	11	19		15	18.2		26	
		12	13	18	17		20	9	11	
W2VYHA	Yfiler™ Plus									
	38	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	26	15	18.2	11	26	
	40	12		18	17	21	20		11	
W364WY	Yfiler™									
	N/A	14	13,18	13	30	23	10	11	12	
2	14	10	11	19	N/A	15	18.2	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	20	N/A	11	

TABLE 2

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

Item 2 - YSTR Results

W38YDJ	PowerPlex® Y 23									
		14	13,18	13	30	23	10	11	12	
	2	14	10	11	19	15	18.2	26		
		12	13	18	17		20	9	11	
WEMNFV	PowerPlex® Y 23									
		14	13,18	13	30	23	10	11	12	
	2	14	10	11	19	15	18.2	26		
		12	13	18	17		20	9	11	
WH29E4	PowerPlex® Y 23									
		14	13,18	13	30	23	10	11	12	
	2	14	10	11	19	15	18.2	26		
		12	13	18	17		20	9	11	
WXAHPZ	Yfiler™ Plus									
		38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11	26
		40	12		18	17	21	20		11
XKHBHE	Yfiler™									
		14	13,18	13	30	23	10	11	12	
	2	14	10	11	19	15	18.2			
							20		11	
XLFF2U	Yfiler™									
		N/A	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	N/A	15	18.2	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	20	N/A	11	
XP26L8	Yfiler™ Plus									
		38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11	26
		40	12		18	17	21	20		11
XTZGG8	Yfiler™ Plus									
		38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11	26
		40	12		18	17	21	20		11
Y4DZCM	PowerPlex® Y 23									
		14	13,18	13	30	23	10	11	12	
	2	14	10	11	19	15	18.2	26		
		12	13	18	17		20	9	11	
Y7ZHU9	Yfiler™ Plus									
		38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11	26
		40	12		18	17	21	20		11
YBAVC7	Yfiler™ Plus									
		38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11	26
		40	12		18	17	21	20		11
YBW7BF	Yfiler™ Plus									
		38	14	13,18	13	30	23	10	11	12
	2	14	10	11	19	26	15	18.2	11	26
		40	12		18	17	21	20		11

TABLE 2

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

Item 2 - YSTR Results

YJPEUK	Yfiler™	14	13,18	13	30	23	10	11	12	
2		14	10	11	19	15	18.2			
							20		11	
YQKL7Y	PowerPlex® Y 23	14	13,18	13	30	23	10	11	12	
2		14	10	11	19	15	18.2		26	
		12	13	18	17		20	9	11	
Z26AMJ	Yfiler™	14	13,18	13	30	23	10	11	12	
2		14	10	11	19	15	18.2			
							20		11	
Z7X8DV	Yfiler™	14	13,18	13	30	23	10	11	12	
2		14	10	11	19	15	18.2			
							20		11	
ZAYFFK	Yfiler™ Plus	38	14	13,18	13	30	23	10	11	12
2		14	10	11	19	26	15	18.2	11	26
		40	12		18	17	21	20		11
ZB9KVU	PowerPlex® Y 23	14	13,18	13	30	23	10	11	12	
2		14	10	11	19	15	18.2		26	
		12	13	18	17		20	9	11	
ZDXQCK	Yfiler™ Plus	38	14	13,18	13	30	23	10	11	12
2		14	10	11	19	26	15	18.2	11	26
		40	12		18	17	21	20		11
ZPBQ9D	Yfiler™ Plus	38	14	13,18	13	30	23	10	11	12
2		14	10	11	19	26	15	18.2	11	26
		40	12		18	17	21	20		11
ZYDC9K	Yfiler™	14	13,18	13	30	23	10	11	12	
2		14	10	11	19	15	18.2			
							20		11	

TABLE 2

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

Item 3 - YSTR Results

3PKFLA	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
6TXYJA	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
7Q27YB	Yfiler™								
3									
9FGDN7	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
9JC8L8	Yfiler™ Plus								
3									
CHN3F6	Yfiler™								
3	-	-	-	-	-	-	-	-	-
CXTYDY	PowerPlex® Y 23								
3									
DJZYKA	PowerPlex® Y 23								
3									
DQDBDZ	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
J6Z7GT	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
JMZJPU	Yfiler™ Plus								
	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
3	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	N/R	N/R		N/R	N/R	N/R	N/R		N/R
LDG22D	PowerPlex® Y 23								
3	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--

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

LG8UNG	PowerPlex® Y 23								
3									
LR42ZR	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
N7Y6HN	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
PCGVGN	Yfiler™ Plus								
	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
3	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
TXP8ZL	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
W38YDJ	PowerPlex® Y 23								
		F	F,F	F	F	F	F	F	F
3	F	F	F	F	F	F	F	F	F
		F	F	F	F	F	F	F	F

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

Q3PW4N	PowerPlex® Y 23								
		F	F,F	F	F	F	F	F	F
3e	F	F	F	F	F	F	F	F	F
		F	F	F	F		F	F	F

TABLE 2

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

Item 3sp - YSTR Results

Q3PW4N PowerPlex® Y 23

3sp



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										
2UX64X	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4	14	11	11	20		16	15		23	
		12	12	19	16		23	10	13	
A4EGWN	PowerPlex® Y									
		16	11,14	13	30	25	11	11	13	
4	14	11	11	20		16	15		23	
		12	12	19	16		23	10	13	
CXYDY	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4	14	11	11	20		16	15		23	
		12	12	19	16		23	10	13	
EV6JEL	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4	14	11	11	20		16	15		23	
		12	12	19	16		23	10	13	
HADWXG	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4	14	11	11	20		16	15		23	
		12	12	19	16		23	10	13	
HDD8UG	Yfiler™ Plus.									
	37,38	16	11,14	13	30	25	11	11	13	
4	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23		13	
HTF7PT	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4	14	11	11	20		16	15		23	
		12	12	19	16		23	10	13	
KHGP6E	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4	14	11	11	20		16	15		23	
		12	12	19	16		23	10	13	
NLMF6Q	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23		13	
UHNZD4	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4	14	11	11	20		16	15		23	
		12	12	19	16		23	10	13	
UP9B9K	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23		13	
VMGEJQ	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23		13	

TABLE 2

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

Item 4 - YSTR Results

WH29E4	PowerPlex® Y 23								
	16	11,14	13	30	25	11	11	13	
4	14	11	11	20	16	15	23	10	13
	12	12	19	16					
YQKL7Y	PowerPlex® Y 23								
	16	11,14	13	30	25	11	11	13	
4	14	11	11	20	16	15	23	10	13
	12	12	19	16					

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 4e - YSTR Results										
2ATKC6	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4e	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23		13	
2KA6V2	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4e	14	11	11	20		16	15		23	
							23		13	
3FXGXQ	Yfiler™									
	N/A	16	11,14	13	30	25	11	11	13	
4e	14	11	11	20	N/A	16	15	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	13	
3K8X6T	Yfiler™									
4e										
3PKFLA	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4e	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23		13	
3UHYQU	Yfiler™									
4e										
44ZZJ9	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4e	14	11	11	20		16	15		23	
							23		13	
4KMGPQ	Yfiler™									
4e										
4PH8V3	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4e	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23		13	
4TWRVW	PowerPlex® Y 23									
4e	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	
6J7JWQ	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4e	14	11	11	20		16	15		23	
							23		13	
6M6VTQ	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4e	14	11	11	20		16	15		23	
							23		13	

TABLE 2

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

Item 4e - YSTR Results

6TXYJA	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
7BCTTV	Yfiler™ Plus								
4e									
7BPM6P	Yfiler™								
4e									
7J67PN	PowerPlex® Y 23								
		BDL	11,14	13	30	25	11	BDL	13
4e	BDL	BDL	11	20		16	15		23
		12	12	19	16		23	BDL	13
7Q27YB	Yfiler™								
		16	11,14	13	30	25	11	11	13
4e	14	11	11	20		16	15		
							23		13
7WPLRN	Yfiler™								
4e									
7WRFA9	Yfiler™								
4e									
7XL23Z	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
84KBKC	PowerPlex® Y 23								
		16	11,14	13	30	25	11	11	13
4e	14	11	11	20		16	15		23
		12	12	19	16		23	10	13
8BRGLA	Yfiler™								
	N/A	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	N/A	16	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	13
8JZ9RX	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
8KUYWD	PowerPlex® Y 23								
4e									

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 4e - YSTR Results										
8RC8LA	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4e	14	11	11	20		16	15			13
							23			
93U44L	Yfiler™									
4e										
9FGDN7	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4e	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
9JC8L8	Yfiler™ Plus									
4e										
9YUT8L	Yfiler™									
4e										
A6PEB7	Yfiler™ Plus									
4e										
AQTZCX	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4e	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
CFL3F8	Yfiler™									
4e										
CHN3F6	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4e	14	11	11	20		16	15			13
							23			
CHRHUQ	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4e	14	11	11	20	32	16	15	12	23	
	41			19	16	17	23			
CL9VQ8	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4e	14	11	11	20		16	15			23
		12	12	19	16		23	10		13
CMMG3U	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4e	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13

TABLE 2

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

Item 4e - YSTR Results

DDR2Q	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
DGCML4	Yfiler™								
4e	-	-	-	-	-	-	-	-	-
DJZYKA	PowerPlex® Y 23								
		16	11,14	13	30	25	11	11	13
4e	14	11	11	20		16	15		23
		12	12	19	16		23	10	13
DQDBDZ	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
DVW7FT	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
DZ6LPG	PowerPlex® Y 23								
		16	11,14	13	30	25	11	11	13
4e	14	11	11	20		16	15		23
		12	12	19	16		23	10	13
EK74B3	Yfiler™								
4e									
EPZX94	Yfiler™								
		16	11,14	13	30	25	11	11	13
4e	14	11	11	20		16	15		23
							23		13
EUG7W4	Yfiler™								
4e									
FBCD7L	Yfiler™								
		16	11,14	13	30	25	11	11	13
4e	14	11	11	20		16	15		23
							23		13
FFUFB7	PowerPlex® Y 23								
4e									
G2K4CH	Yfiler™								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 4e - YSTR Results										
G7ZP8B	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4e	14	11	11	20		16	15			13
							23			
GAKERN	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4e	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
GFBRTC	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4e	14	11	11	20		16	15			13
							23			
GNJN93	Yfiler™									
4e										
GV2WWY	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4e	14	11	11	20		16	15			23
		12	12	19	16		23	10		13
GVY3FE	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4e	14	11	11	20		16	15			23
		12	12	19	16		23	10		13
J39ARY	Yfiler™									
4e										
J6YCY9	Yfiler™ Plus									
4e										
J6Z7GT	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4e	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
JMZJPU	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4e	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
JPNVNZ	Yfiler™									
4e										
JZMNYC	Yfiler™									
								11		
4e	14	11	11	20						
							23			13

TABLE 2

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

Item 4e - YSTR Results

K9WCCB	Yfiler™								
		16	11,14	13	30	25	11	11	13
4e		14	11	11	20	16	15		13
							23		
KB33DY	Yfiler™								
4e									
KE3777	PowerPlex® Y 23								
		not amp'd	not amp'd	not amp'd	not amp'd	not amp'd	not amp'd	not amp'd	not amp'd
4e		not amp'd	not amp'd	not amp'd	not amp'd	not amp'd	not amp'd	not amp'd	not amp'd
		not amp'd	not amp'd	not amp'd	not amp'd	not amp'd	not amp'd	not amp'd	not amp'd
KFTCMW	Yfiler™								
		16	11,14	13	30	25	11	11	13
4e		14	11	11	20	16	15		13
							23		
KPHVAH	PowerPlex® Y 23								
			11,14	13	30		11		13
4e		14	11	11	20		15		23
		12	12	19	16		23	10	
LDG22D	PowerPlex® Y 23								
	--	--	--	--	--	--	--	--	--
4e		--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--
LG8UNG	PowerPlex® Y 23								
4e									
LR42ZR	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e		14	11	11	20	32	16	15	23
	41	12		19	16	17	23		13
LWKANR	Yfiler™								
		16	11,14	13	30	25	11	11	13
4e		14	11	11	20	16	15		13
							23		
M2MXJ6	Yfiler™								
	NA	16	11,14	13	30	25	11	11	13
4e		14	11	11	20	NA	16	15	NA
	NA	NA	NA	NA	NA	NA	23	NA	13
MZB4YX	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e		14	11	11	20	32	16	15	23
	41	12		19	16	17	23		13
N7Y6HN	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e		14	11	11	20	32	16	15	23
	41	12		19	16	17	23		13

TABLE 2

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

Item 4e - YSTR Results

NMLLN7	Yfiler™								
4e	[REDACTED]								
P9ZQKE	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
PCGVGN	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
PDAQ4W	Yfiler™ Plus								
4e	[REDACTED]								
Q3N3M4	Yfiler™								
4e	[REDACTED]								
Q3PW4N	PowerPlex® Y 23								
4e	[REDACTED]								
RCU2ZB	PowerPlex® Y 23								
		16	11,14	13	30	25	11	11	13
4e	14	11	11	20		16	15		23
		12	12	19	16		23	10	13
RDL3XL	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
RKNC4E	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
RYAMWC	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
RZDJYR	Yfiler™								
		16	11,14	13	30	25	11	11	13
4e	14	11	11	20		16	15		
							23		13
TBDAHE	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4e - YSTR Results									
TBTT3B	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
TQ74TJ	Yfiler™								
		16	11,14	13	30	25	11	11	13
4e	14	11	11	20		16	15		23
							23		13
TTXZFR	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
TXP8ZL	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
TYZALK	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
UP8GRZ	Yfiler™								
4e									
UVJ6PB	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
VE3TAM	PowerPlex® Y 23								
4e									
WQ4WP	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
VYCKEA	PowerPlex® Y 23								
		16	11,14	13	30	25	11	11	13
4e	14	11	11	20		16	15		23
		12	12	19	16		23	10	13
W2VYHA	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
W364WY	Yfiler™								
	N/A	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	N/A	16	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	13

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 4e - YSTR Results										
W38YDJ	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4e	14	11	11	20		16	15		23	
		12	12	19	16		23	10	13	
WEMNFV	PowerPlex® Y 23									
4e										
WXAHZP	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4e	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23		13	
XKHBHE	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4e	14	11	11	20		16	15		23	13
XLFF2U	Yfiler™									
	N/A	16	11,14	13	30	25	11	11	13	
4e	14	11	11	20	N/A	16	15	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	13	
XP26L8	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4e	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23		13	
XTZGG8	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4e	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23		13	
Y4DZCM	PowerPlex® Y 23									
4e										
Y7ZHU9	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4e	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23		13	
YBAVC7	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4e	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23		13	
YBW7BF	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4e	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23		13	
YJPEUK	Yfiler™									
4e										

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 4e - YSTR Results

Z26AMJ	Yfiler™								
4e	[REDACTED]								
Z7X8DV	Yfiler™								
		16	11,14	13	30	25	11	11	13
4e	14	11	11	20		16	15		13
							23		13
ZAYFFK	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
ZB9KVU	PowerPlex® Y 23								
		bdl	bdl	13	30	bdl	11	11	13
4e	14	11	bdl	20		16	15		23
		12	12	19	16		23	10	13
ZDXQCK	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
ZPBQ9D	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4e	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
ZYDC9K	Yfiler™								
		16	11,14	13	30	25	11	11	13
4e	14	11	11	20		16	15		13
							23		13

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 4sp - YSTR Results										
2ATKC6	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23		13	
2KA6V2	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			
							23		13	
3FXGXQ	Yfiler™									
	N/A	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	N/A	16	15	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	13	
3K8X6T	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			
							23		13	
3PKFLA	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23		13	
3UHYQU	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			
							23		13	
44ZZJ9	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			
							23		13	
4KMGPQ	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			
							23		13	
4PH8V3	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23		13	
4TWRVW	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15		23	
		12	12	19	16		23	10	13	
6J7JWQ	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			
							23		13	
6M6VTQ	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			
							23		13	

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4sp - YSTR Results									
6TXJJA	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
7BCTTV	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
7BPM6P	Yfiler™								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		13
							23		13
7J67PN	PowerPlex® Y 23								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		23
		12	12	19	16		23	10	13
7Q27YB	Yfiler™								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		13
							23		13
7WPLRN	Yfiler™								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		13
							23		13
7WRFA9	Yfiler™								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		13
							23		13
7XL23Z	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
84KBKC	PowerPlex® Y 23								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		23
		12	12	19	16		23	10	13
8BRGLA	Yfiler™								
	N/A	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	N/A	16	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	13
8JZ9RX	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
8KUYWD	PowerPlex® Y 23								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		23
		12	12	19	16		23	10	13

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 4sp - YSTR Results										
8RC8LA	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			13
							23			
93U44L	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			13
							23			
9FGDN7	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
9JC8L8	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
9YUT8L	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			13
							23			
A6PEB7	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
AQTZCX	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
CFL3F8	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			13
							23			
CHN3F6	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			13
							23			
CHRHUQ	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
CL9VQ8	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			23
		12	12	19	16		23	10		13
CMMG3U	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4sp - YSTR Results									
DDR2Q	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
DGCML4	Yfiler™								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		13
							23		13
DJZYKA	PowerPlex® Y 23								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		23
		12	12	19	16		23	10	13
DQDBDZ	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
DVW7FT	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
DZ6LPG	PowerPlex® Y 23								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		23
		12	12	19	16		23	10	13
EK74B3	Yfiler™								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		13
							23		13
EPZX94	Yfiler™								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		13
							23		13
EUG7W4	Yfiler™								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		13
							23		13
FBCD7L	Yfiler™								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		13
							23		13
FFUFB7	PowerPlex® Y 23								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		23
		12	12	19	16		23	10	13
G2K4CH	Yfiler™								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 4sp - YSTR Results										
G7ZP8B	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			13
							23			
GAKERN	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
GFBRTC	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			13
							23			
GNJN93	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			13
							23			
GV2WWY	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			23
		12	12	19	16		23	10		13
GVY3FE	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			23
		12	12	19	16		23	10		13
J39ARY	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			13
							23			
J6YCY9	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
J6Z7GT	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
JMZJPU	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
JPNVNZ	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			13
							23			
JZMNYC	Yfiler™									
		16	11,14	13	30	25	11		13	
4sp						16	15			

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 4sp - YSTR Results										
K9WCCB	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp		14	11	11	20	16	15			
							23			13
KB33DY	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp		14	11	11	20	16	15			
							23			13
KE3777	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4sp		14	11	11	20	16	15			23
		12	12	19	16		23	10		13
KFTCMW	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp		14	11	11	20	16	15			
							23			13
KPHVAH	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4sp		14	11	11	20	16	15			23
		12	12	19	16		23	10		13
LDG22D	PowerPlex® Y 23									
	--	16	11,14	13	30	25	11	11	13	
4sp		14	11	11	20	--	16	15	--	23
	--	12	12	19	16	--	23	10		13
LG8UNG	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4sp		14	11	11	20	16	15			23
		12	12	19	16		23	10		13
LR42ZR	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp		14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23			13
LWKANR	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp		14	11	11	20	16	15			
							23			13
M2MXJ6	Yfiler™									
	NA	16	11,14	13	30	25	11	11	13	
4sp		14	11	11	20	NA	16	15	NA	NA
	NA	NA	NA	NA	NA	NA	23	NA		13
MZB4YX	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp		14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23			13
N7Y6HN	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp		14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23			13

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 4sp - YSTR Results										
NMLLN7	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			
							23			13
P9ZQKE	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
PCGVGN	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
PDAQ4W	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
Q3N3M4	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			
							23			13
Q3PW4N	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15		23	
		12	12	19	16		23	10		13
RCU2ZB	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15		23	
		12	12	19	16		23	10		13
RDL3XL	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
RKNC4E	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
RYAMWC	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
RZDJYR	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			
							23			13
TBDAHE	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4sp - YSTR Results									
TBTT3B	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
TQ74TJ	Yfiler™								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		23
							23		13
TTXZFR	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
TXP8ZL	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
TYZALK	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
UP8GRZ	Yfiler™								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		23
							23		13
UVJ6PB	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
VE3TAM	PowerPlex® Y 23								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		23
		12	12	19	16		23	10	13
WVQ4WP	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
VYCKEA	PowerPlex® Y 23								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		23
		12	12	19	16		23	10	13
W2VYHA	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
W364WY	Yfiler™								
	N/A	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	N/A	16	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	13

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4sp - YSTR Results									
W38YDJ	PowerPlex® Y 23								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		23
		12	12	19	16		23	10	13
WEMNFV	PowerPlex® Y 23								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		23
		12	12	19	16		23	10	13
WXAHZP	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
XKHBHE	Yfiler™								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		23
							23		13
XLFF2U	Yfiler™								
	N/A	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	N/A	16	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	13
XP26L8	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
XTZGG8	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
Y4DZCM	PowerPlex® Y 23								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		23
		12	12	19	16		23	10	13
Y7ZHU9	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
YBAVC7	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
YBW7BF	Yfiler™ Plus								
	37,38	16	11,14	13	30	25	11	11	13
4sp	14	11	11	20	32	16	15	12	23
	41	12		19	16	17	23		13
YJPEUK	Yfiler™								
		16	11,14	13	30	25	11	11	13
4sp	14	11	11	20		16	15		23
							23		13

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 4sp - YSTR Results										
Z26AMJ	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			13
							23			
Z7X8DV	Yfiler™									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			13
							23			
ZAYFFK	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
ZB9KVU	PowerPlex® Y 23									
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			23
		12	12	19	16		23	10		13
ZDXQCK	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
ZPBQ9D	Yfiler™ Plus									
	37,38	16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20	32	16	15	12	23	
	41	12		19	16	17	23			13
ZYDC9K										
		16	11,14	13	30	25	11	11	13	
4sp	14	11	11	20		16	15			13
							23			

Additional DNA Results

TABLE 3

Locus	WebCode	Item 1	Item 2	Item 3	Item 4
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No additional DNA results were reported.

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
2AAECE	Yes	Yes	No	No	4TWRVW	Yes	Yes	No	No
2ATKC6	Yes	Yes	No	No	6J7JWQ	Yes	Yes	No	No
2B4HM2	Yes	Yes	No	No	6J8EDC	Yes	Yes	No	No
2KA6V2	Yes	Yes	No	No	6M6VTQ	Yes	Yes	No	No
2KTXNY	Yes	Yes	No	No	6M8PAB	Yes	Yes	No	No
2QJL6P	Yes	Yes	No	No	6NGUMZ	Yes	Yes	No	No
2UX64X	Yes	Yes	No	No	6TXYJA	Yes	Yes	No	No
2XZ2VE	Yes	Yes	No	No	7BCTTV	Yes	Yes	No	No
37NCHE	Yes	Yes	No	No	7BPM6P	Yes	Yes	No	No
3EYCEB	Yes	Yes	No	No	7H8Z7A	Yes	Yes	No	No
3FXGXQ	Yes	Yes	No	No	7J67PN	Yes	Yes	No	No
3K8X6T	No Interpretations Reported, DNA Analyzed for Database purposes only.				7LQTGC	Yes	Yes	No	No
3PKFLA	Yes	Yes	No	No	7Q27YB	Yes	Yes	No	No
3UHYQU	Yes	Yes	No	No	7UKXBD	Yes	Yes	No	No
44X73N	Yes	Yes	No	No	7WPLRN	Yes	Yes	No	No
44ZZJ9	Yes	Yes	No	No	7WRFA9	Yes	Yes	No	No
4D2KJF	Yes	Yes	No	No	7XL23Z	Yes	Yes	No	No
4KMGPQ	Yes	Yes	No	No	84KBKC	Yes	Yes	No	No
4PH8V3	Yes	Yes	No	No	88L28Q	Yes	Yes	No	No
4PV29G	Yes	Yes	No	No	8BRGLA	Yes	Yes	No	No

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
8JZ9RX	Yes	Yes	No	No	CXTYDY	Yes	Yes	No	No
8KUYWD	Yes	Yes	No	No	D6HANR	Yes	Yes	No	No
8RC8LA	Yes	Yes	No	No	DARHVN	Yes	Yes	No	No
92WYK7	Yes	Yes	No	No	DCGWD8	Yes	Yes	No	No
93U44L	Yes	Yes	No	No	DDRX2Q	Yes	Yes	No	No
9FGDN7	Yes	Yes	No	No	DE2P8L	Yes	Yes	No	No
9JC8L8	Yes	Yes	No	No	DGCML4	Yes	Yes	No	No
9KAD6M	No Interpretations Reported, DNA Analyzed for Database purposes only.				DJZYKA	Yes	Yes	No	No
9XWMP7	Yes	Yes	No	No	DP7TE6	Yes	Yes	No	No
9YUT8L	Yes	Yes	No	No	DQDBDZ	Yes	Yes	No	No
A4EGWN	Yes	Yes	No	No	DRTAWP	Yes	Yes	No	No
A6PEB7	Yes	Yes	No	No	DTTAAW	No Interpretations Reported, DNA Analyzed for Database purposes only.			
A7NKTK	No Interpretations Reported, DNA Analyzed for Database purposes only.				DVW7FT	Yes	Yes	No	No
A9A8L9	Yes	Yes	No	No	DYWC2Q	Yes	Yes	No	No
AQTZCX	Yes	Yes	No	No	DZ6LPG	Yes	Yes	No	No
BF3Y88	Yes	Yes	No	No	EK74B3	Yes	Yes	No	No
CFL3F8	Yes	Yes	No	No	EPZX94	Yes	Yes	No	No
CHN3F6	Yes	Yes	No	No	EUG7W4	Yes	Yes	No	No
CHRHUQ	Yes	Yes	No	No	EV6JEL	Yes	Yes	No	No
CL9VQ8	Yes	Yes	No	No	F6BWYM	No Interp	No Interp	No Interp	No Interp
CMMG3U	Yes	Yes	No	No	FBCD7L	Yes	Yes	No	No

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
FFUFB7	Yes	Yes	No	No	J6Z7GT	Yes	Yes	No	No
FGLCYZ	Yes	Yes	No	No	J79LMY	Yes	Yes	No	No
G243C2	No Interpretations Reported, DNA Analyzed for Database purposes only.				JL9HRJ	No Interpretations Reported, DNA Analyzed for Database purposes only.			
G2K4CH	Yes	Yes	No	No	JMZJPU	Yes	Yes	No	No
G72JNV	Yes	Yes	No	No	JPNVNZ	Yes	Yes	No	No
G7ZP8B	Yes	Yes	No	No	JYPHFW	Yes	Yes	No	No
GAKERN	Yes	Yes	No	No	JZMNYC	Yes	Yes	No	No
GC4NKL	No Interpretations Reported, DNA Analyzed for Database purposes only.				K2U37H	Yes	Yes	No	No
GECLAW	Yes	Yes	No	No	K38WJX	Yes	Yes	No	No
GET334	Yes	Yes	No	No	K8Y8UV	Yes	Yes	No	No
GFBRCT	Yes	Yes	No	No	K9WCCB	Yes	Yes	No	No
GNJN93	Yes	Yes	No	No	KB33DY	Yes	Yes	No	No
GV2WWY	Yes	Yes	No	No	KE3777	Yes	Yes	No	No
GVY3FE	Yes	Yes	No	No	KFTCMW	Yes	Yes	No	No
GXP9V6	Yes	Yes	No	No	KHGP6E	Yes	Yes	No	No
HADWXG	Yes	Yes	No	No	KKM7KX	Yes	Yes	No	No
HDD8UG	Yes	Yes	No	No	KPHVAH	Yes	Yes	No	No
HTF7PT	Yes	Yes	No	No	KTHBDY	Yes	Yes	No	No
J39ARY	Yes	Yes	No	No	KWHF88	Yes	Yes	No	No
J3R9QH	Yes	Yes	No	No	KY9LNX	Yes	Yes	No	No
J6YCY9	Yes	Yes	No	No	LD6ZLNQ	Yes	Yes	No	No

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
LDG22D	Yes	Yes	No	No	RCU2ZB	Yes	Yes	No	No
LG8UNG	Yes	Yes	No	No	RDL3XL	Yes	Yes	No	No
LMR4MD	Yes	Yes	No	No	RKNC4E	Yes	Yes	No	No
LR42ZR	Yes	Yes	No	No	RWFXAA	Yes	Yes	No	No
LWKANR	Yes	Yes	No	No	RYAMWC	Yes	Yes	No	No
M2MXJ6	Yes	Yes	No	No	RZDJYR	Yes	Yes	No	No
MZB4YX	Yes	Yes	No	No	TBDAHE	Yes	Yes	No	No
N4RMJT	Yes	Yes	No	No	TBTT3B	Yes	Yes	No	No
N686KD	Yes	Yes	No	No	TLETY9	Yes	Yes	No	No
N7WB24	Yes	Yes	No	No	TQ74TJ	Yes	Yes	No	No
N7Y6HN	Yes	Yes	No	No	TTXZFR	Yes	Yes	No	No
NLMF6Q	Yes	Yes	No	No	TU4HF9	Yes	Yes	No	No
NMLLN7	Yes	Yes	No	No	TXP8ZL	Yes	Yes	No	No
NPQBNT	Yes	Yes	No	No	TYZALK	Yes	Yes	No	No
P9ZQKE	Yes	Yes	No	No	U2M9DN	Yes	Yes	No	No
PCGVGN	Yes	Yes	No	No	UHNZD4	Yes	Yes	No	No
PDAQ4W	Yes	Yes	No	No	UP8GRZ	Yes	Yes	No	No
Q3N3M4	Yes	Yes	No	No	UP9B9K	Yes	Yes	No	No
Q3PW4N	Yes	Yes	No	No	UVJ6PB	Yes	Yes	No	No
Q6F222	Yes	Yes	No	No	VE3TAM	Yes	Yes	No	No
R94AD8	Yes	Yes	No	No	VHNAT8	Yes	Yes	No	No

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
VLR229	Yes	Yes	No	No	YBW7BF	Yes	Yes	No	No
VMGEJQ	Yes	Yes	No	No	YJPEUK	Yes	Yes	No	No
WQ4WP	Yes	Yes	No	No	YQKL7Y	Yes	Yes	No	No
VYCKEA	Yes	Yes	No	No	YRY38J	Yes	Yes	No	No
W2VYHA	Yes	Yes	No	No	Z26AMJ	Yes	Yes	No	No
W364WY	Yes	Yes	No	No	Z7X8DV	Yes	Yes	No	No
W38YDJ	Yes	Yes	No	No	Z9NDUL	Yes	Yes	No	No
WDNHXF	Yes	Yes	No	No	ZAYFFK	Yes	Yes	No	No
WEMNFV	Yes	Yes	No	No	ZB9KVU	Yes	Yes	No	No
WH29E4	Yes	Yes	No	No	ZDXQCK	Yes	Yes	No	No
WUA76P	Yes	Yes	No	No	ZFK9U6	Yes	Yes	No	No
WXAHPZ	Yes	Yes	No	No	ZNJQB3	Yes	Yes	No	No
X8U9ZM	Yes	Yes	No	No	ZPBQ9D	Yes	Yes	No	No
XKHBHE	Yes	Yes	No	No	ZWNXQ3	Yes	Yes	No	No
XLFF2U	Yes	Yes	No	No	ZYDC9K	Yes	Yes	No	No
XP26L8	Yes	Yes	No	No					
XQR4Z6	Yes	Yes	No	No					
XTZGG8	Yes	Yes	No	No					
Y4DZCM	Yes	Yes	No	No					
Y7ZHU9	Yes	Yes	No	No					
YBAVC7	Yes	Yes	No	No					

DNA Interpretation**Response Summary****Participants reporting DNA results: 202**

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	194	194	0	0
No	0	0	194	194
Inc	0	0	0	0
No Interpretation	1	1	1	1
No Response	0	0	0	0

Participants analyzing DNA for database purposes only: 7

Additional Comments

TABLE 5

WebCode	Additional Comments
3FXGXQ	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
3K8X6T	NR = No Result. No comparisons performed - [Initials] 11/27/2020
3PKFLA	NR = No Results. All data reported out in the proficiency originate from analysis using GeneMapper ID-X.
3UHYQU	NR = No Results
44X73N	Comment on reported results for item 4, epithelial fraction: In order with the laboratory's cut-off value (unique for each STR-marker, based on internal validation of the STR-kit and known stutter contribution) to assure that only true alleles are used for statistical calculations, a number of alleles have not been reported as minor/weaker alleles even though they are visible in the electropherogram.
44ZZJ9	Extraction: -Item 1 was extracted using in-situ method. -Item 2, Item 3 and Item 4 were extracted using chelex extraction. Quantification: -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 was amplified using GlobalFiler Express Kit on ABI Proflex PCR System. -Item 2, Item 3 and Item 4 were amplified using GlobalFiler Amplification Kit on ABI GeneAmp PCR System 9700. -Y-STR Amplification was carried out on Item 2 and Item 4 using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: -Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4. Quality Control: -Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results. Note: NM - Non male profile
4KMGPQ	NR = no result
6J7JWQ	"[] - indicates minor allele/s and alleles between analytical and stochastic thresholds"
6J8EDC	Full DNA profile from unknown male obtained from seminal fraction of Item 4 - suitable for permanent inclusion on the National DNA Database.
6M6VTQ	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
6TXYJA	1. NR = no results. 2. Data reported out in this proficiency test is from analysis using GeneMapper ID-X.
7BPM6P	NR = No Result
7H8Z7A	Victim (Item 1) is only a part of the DNA mixture in Item 4.
7J67PN	BDL=Below Detection Limit
7LQTGC	Item 3 was extracted via differential separation, per laboratory protocol. No human DNA was detected in the sperm fraction, so the report will reflect the non-sperm fraction (epi-fraction) only.
7Q27YB	1. Extraction: In-situ extraction method was used to extract DNA from Item 1 and Item 2. Chelex extraction method was used to extract DNA from Item 3 and Item 4. 2. Quantification: DNA quantification was carried out using Quantifiler Human DNA Quantification Kit with Applied Biosystem Real Time Polymerase Chain Reaction 7500 System. 3. Amplification: Amplification of STR (Short Tandem Repeat) Genetic Loci was carried out on Item 1 and Item 2 using the AmpFISTR Identifiler Direct PCR Amplification Kit, while on Item 3 and Item 4 using the AmpFISTR Identifiler Plus PCR Amplification Kit on the 9700 GeneAmp PCR System. Amplification of Y-STR (Short Tandem Repeat) Genetic Loci was carried out on Item 2, Item 3 and Item 4 using the AmpFISTR Y-Filer PCR Amplification Kit on the 9700 GeneAmp PCR System. 4. Electrophoresis: Electrophoresis was carried out using Applied Biosystem 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 1 and Item 2 (Identifiler Direct) and Item 3 and Item 4 (Identifiler Plus). Electrophoresis for Y-Filer was carried out using Applied Biosystem 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 2, Item 3 and Item 4. 5. Reagent blank, positive control and negative control were carried out throughout the analysis and all gave the intended results.
7WPLRN	NR=No results
7WRFA9	For item 4, only the sperm fraction was analyzed for the Y chromosome.
8KUYWD	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. Powerplex Fusion 6C is used only for allele verification.

TABLE 5

WebCode	Additional Comments
8RC8LA	Extraction: In-situ extraction method was used to extract DNA from Item 1 and Item 2. Chelex DNA extraction method was used to extract DNA from Item 3 and Item 4. Quantification: DNA quantitation for Item 3 and Item 4 were carried out using the Quantifiler Human DNA Quantification kit with Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 system. Amplification: Amplification of STR (Short Tandem Repeat) genetic loci for Item 1 and Item 2 were carried out using the AmpFISTR Identifiler Direct Amplification Kit and Item 3 and Item 4 were amplified using the AmpFISTR Identifiler Plus PCR Amplification Kit. Amplification of Y-STR (Y-Short Tandem Repeat) genetic loci for Item 2 and Item 4 were carried out using the AmpFISTR Y-filer PCR Amplification kit. Electrophoresis: Capillary electrophoresis for Item 1,2,3 and 4 were carried out using the Applied Biosystems 3500xl Genetic Analyzer with GeneMapper ID-X Software. Quality Control: Reagent blank, positive control and negative control were carried out throughout the analysis and all gave intended results.
92WYK7	N.B Unknown male profile identified on 4sp of item 4. Same unknown male profile possible contributor of 4e of item 4.
93U44L	NR=No Result
9FGDN7	NR=No Results. All data reported out in the proficiency originates from analysis using GeneMapper ID-X.
9JC8L8	ITEM4: MIXTURE OF VICTIM BLOOD WITH PROBABLE BLOOD OF ANOTHER MALE (NOT SUSPECT ITEM 2), SPERM IS ALSO FOUND FOR THE SAME MALE (NOT SUSPECT ITEM 2). ITEM3: BLOOD OF VICTIM ONLY.
9YUT8L	NR=No Result.
A6PEB7	[] - weaker alleles
CHN3F6	Extraction: Item 3 and Item 4 were extracted using Chelex extraction method. Quantification: Item 3 and Item 4 were quantified using the Quantifiler™ Human DNA Quantification Kit on the Applied Biosystems™ 7500 Real-Time PCR Systems. Amplification: Item 1 and Item 2 were amplified using the AmpFLSTR™ Identifiler™ Direct on the Applied Biosystems™ GeneAmp™ PCR System 9700. With the in-situ method, Item 1 and Item 2 were also amplified using the AmpFLSTR™ YFiler™ PCR Amplification Kit on Applied Biosystems™ GeneAmp™ PCR System 9700. Item 3 and Item 4 were amplified using the AmpFLSTR™ Identifiler™ Plus and YFiler™ PCR Amplification Kits on the Applied Biosystems™ GeneAmp™ PCR System 9700. Electrophoresis: Electrophoresis was carried out on Applied Biosystems™ 3500xL Genetic Analyzer and the data were analyzed with GeneMapper® ID-X v1.5 software. Quality Control: Reagent Blank, Positive Control and Negative Control were included throughout the analysis and all gave intended results.
DE2P8L	Since it is observed that the male profile of item 4(sp) is different from de male profile of item 2, the Y chromosome profile is not obtained.
DGCML4	Extraction: Item 3 was extracted using Chelex Extraction while Item 4 was extracted using Chelex Differential Extraction. Quantification: Item 3 and Item 4 were quantified using the Quantifiler Human DNA quantitation kit and carried out by 7500 Real-Time PCR. Amplification: Item 1 and Item 2 were amplified using AMPFISTR Identifiler Direct Kit on 9700 GeneAmp PCR System. Item 3 and Item 4 were amplified using AMPFISTR Identifiler Plus Kit on 9700 GeneAmp PCR System. Item 2 and Item 4 were amplified using AMPFLSTR YFiler Kit on 9700 GeneAmp PCR System. Electrophoresis: The electrophoresis process was carried out by Genetic Analyser 3500xl for Item 1 to Item 4. Quality Control: Reagent blank, positive control, and negative control were carried out along with the analysis and all gave the intended results.
DQDBDZ	NR = No Results. STRmix analysis was performed on Item 4e (Item 4F). All data reported out in the proficiency originates from analysis using Genemapper ID-X.
DZ6LPG	ND = no data
F6BWYM	The known samples were not profiled and no interpretations were reported. Items 3 and 4 were profiled to confirm that correct results were obtained for the assigned analyst who is proficiency tested in DNA extraction through quantitation of evidentiary samples.
FBCD7L	Yfiler was not performed with Items 1 and 3 as no male DNA was indicated
FFUFB7	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. Powerplex Fusion 6C is used for allele verification.

TABLE 5

WebCode	Additional Comments
G243C2	Test participant functions as Y-screen technician and does not perform interpretations.
G7ZP8B	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
GFBRTC	[] - indicates minor allele(s) and alleles between analytical and stochastic thresholds
HDD8UG	To find out if the male profile of the mixture of item 4 comes from de same person or a different one from item 2, the Y chromosome profile was obtained.
J6YCY9	Y-STR's performed on sperm fraction of item 4 only.
J6Z7GT	NR = No Results. All data reported out in the proficiency originate from analysis using GeneMapper ID-X. The epithelial portion of question sample, Item 4F, was analyzed using the STRmix probabilistic genotyping software.
JL9HRJ	No interpretations were reported. Items 3 and 4 were profiled to confirm that correct results were obtained for the assigned analyst who is proficiency tested in DNA extraction through quantitation of evidentiary samples as well as in database analysis.
JMZJPU	N/R = No Results. Data analyzed using GeneMapper ID-X
JZMNYC	NR= No Results
K2U37H	Technical Review (Ownership Review) PT
K8Y8UV	Additional 13 peak at D13 in both the seminal and epithelial portions of item 4. This was determined to be combined stutter from the 12 and 14 alleles and therefore not considered further.
KWHF88	ND = not detected
KY9LNX	Item 3 was differentially extracted per lab protocol. No DNA was detected in the sperm fraction, therefore the fraction did not move forward and was not reported here. Only the non-sperm (epi fraction) is reported on.
LG8UNG	Items 3 and 4 were tested for the presence of human blood using the HemaTrace test. Human blood was detected on Items 3 and 4. The cell pellet from Item 4 was examined microscopically for sperm cells. Sperm cells were detected on Item 4.
LR42ZR	"NR" indicates that no results were obtained for that locus. All data reported out in this proficiency originate from analysis using GeneMapper ID-X. The non-sperm fraction from Item 4 was analyzed using STRmix software in addition to GeneMapper ID-X.
LWKANR	Extraction: Item 1 and Item 2 were extracted using in-house extraction method, Item 3 were extracted using DNAIQ purification kit via TECAN FREEDOM EVO 150 automation protocol and Item 4 were extracted using Chelex Differential extraction method. Quantification: Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification kit. Amplification: Item 1 and Item 2 were amplified using AmpFISTR GlobalFiler Express Kit while Item 3 and Item 4 were amplified using AmpFISTR GlobalFiler kit on ProFlex PCR system. Y-STR amplification was carried out on Item 2 and Item 4 using AmpFISTR Y-Filer kit on ProFlex PCR System. Electrophoresis: Electrophoresis was carried out on Genetic Analyzer 3500xL for all items. Electrophoresis for Y-Filer was carried out on Genetic Analyzer 3130xl for Item 2 and Item 4 (Y-Filer Kit). Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results
M2MXJ6	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
N4RMJT	Blood was found on item 3, with a DNA profile which matches that of the victim (item 1), and therefore the blood could have originated from the victim. This finding is estimated to be at least a billion times more likely if the blood had originated from the victim rather than from someone unrelated to her. No semen was detected on item 3. Semen and blood were found on item 4; an attempt was made to separate the sperm cells from other cellular material present and both the seminal and cellular fractions were subjected to DNA profiling tests. The seminal fraction gave a male DNA profile which does not match the suspect (item 4) and therefore the semen cannot have originated from him. This profile could therefore be compared to any known partners of the victim, or if appropriate, loaded to the National DNA Database in an attempt to identify the donor of the semen. The cellular fraction gave a mixed DNA profile with a major profile matching the victim and a minor profile matching the donor of the semen. In my opinion, at least the majority of the blood could have originated from the victim.

TABLE 5

WebCode	Additional Comments
N7Y6HN	NR = no results. The data reported out in this proficiency test is from analysis using GeneMapper ID-X.
NMLLN7	NR = No Results
Q3N3M4	NR=No results
Q6F222	ND = Not Detected
R94AD8	Due to our laboratory policies, markers with alleles below the stochastic level (200RFU) were not taken into account for the mixed analysis and for the statistical calculation the final genetic software was used. [From Table 1: STR Amplification Kit(s) & Results, Probabalistic Genotyping Software Field, Item 3: "9.648X10 A LA 27 (NUEVE MIL SEISCIENTOS CUARENTA Y OCHO CUATRILLONES) GENETICA FINAL." Item 4e: "7.5452X10 A LA 19 (SETENTA Y CINCO TRILLONES CUATROCIENTOS CINCUENTA Y DOS) GENETICA FINAL." Item 4sp: "7.5452X10 A LA 19 (SETENTA Y CINCO TRILLONES CUATROCIENTOS CINCUENTA Y DOS) GENETICA FINAL."]
TQ74TJ	Extraction: Item 1 and Item 2 were extracted using in-situ method. Item 3 was extracted using TECAN FREEDOM EVO 150 extraction method. Item 4 was extracted using differential extraction method. Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Human DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using GlobalFiler Express PCR Amplification Kit on Proflex PCR System. Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Item 2 and Item 4 were amplified using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1 and Item 2, Item 3 and Item 4. Quality Control: Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
TXP8ZL	NR=No Results. All data reported out in this proficiency originates from analysis using GeneMapper ID-X. STRmix used on Item 4F.
TYZALK	NR = No Result
UHNZD4	Based on the mixture obtained from the autosomal analysis of Item 4 the victim is a minor contributor to the mixture, it is inconclusive whether or not the suspect can or cannot be excluded based on shared alleles seen at a few loci, The major contributor is an unknown male individual. Based on the single Y-STR profile obtained from Item 4, the suspect has been excluded as being the source of this item. Therefore, the source of item 4 is an unknown male individual, for whom a reference sample was not available for comparison.
UP8GRZ	NR = No Results
VVQ4WP	NR = no results
W364WY	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds. N/A - Not Applicable
W38YDJ	Item 3: Blood attributable to female victim (item 1) was detected. No male DNA was detected using globalfiler or Y23 for this item. Item 4: Male DNA was detected in both the sperm and cellular fractions using globalfiler and Y23 which did not match the DNA profile of the male suspect(item 2). In our opinion, this male DNA is from semen. No statistical evaluation was carried out as we did not have a reference sample which matched the male DNA. This profile could however be loaded to the DNA Database (particularly as there is another male suspect who has not been identified). Female DNA attributable to female victim (item 1) was detected in the cellular fraction. This finding was not unexpected given the sample was taken from her underwear.
WUA76P	NR = No Results
WXAHPZ	NR = no result

TABLE 5

WebCode	Additional Comments
XKHBHE	Extraction: Item 1 and Item 2 were extracted using in situ method. Item 3 was extracted using Promega DNA IQ kit on Tecan Freedom 150 and Item 4 was extracted using differential extraction method. Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Human DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using Globalfiler Express (GFE) Kit on ABI Proflex PCR System. Item 3 and Item 4 were amplified using Globalfiler Casework Amplification Kit on ABI GeneAmp PCR System 9700. Item 2 and Item 4 were amplified using AmpFLSTR Yfiler PCR Amplification Kit on ABI Geneamp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4. Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 2 and Item 4 (Y-filer). Quality Control: Reagent Blank, Positive Control and Negative Control were carried out during analysis and all gave intended results. NM: Non-male allele.
XLFF2U	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds. N/A - Not Applicable
XQR4Z6	{ } = Imbalanced Alleles. Technical Review (Ownership Review) PT
Y4DZCM	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification.
YJPEUK	For item 3 a differential extraction was performed. However, based on our laboratory's SOP, the sperm fraction was terminated after quantitation based on no male DNA being detected in this fraction. No STR results were obtained.
YQKL7Y	The mixed profile obtained from the questioned blood and semen mixture from the victim's underwear (Item 4) originated from at least two (2) individuals, including at least one male individual. The victim cannot be excluded as being a minor contributor to this mixture. The major contributor of this sample originated from at least one (1) male individual. The suspect can be excluded as being a contributor to this mixture.
Z7X8DV	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
ZB9KVU	bdL = below detection level
ZPBQ9D	NR= No Results
ZYDC9K	Y-STR analysis was not performed on items 1 and 3 because no male DNA was detected using Quantifiler Trio.

-End of Report-
(Appendix may follow)

Test No. 20-5806: DNA-Mixture

DATA MUST BE SUBMITTED BY **Dec. 21, 2020, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: PDF2Z4

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

Scenario:

Police are investigating the sexual assault of a female victim. The victim went to meet a man she had met on the internet. After arriving at his place another man arrived, and they began drinking. After a few drinks she began feeling dizzy. The next thing she remembered was a man on top of her. She remembers trying to fight the man off and then waking up later with no pants on. Police were able to apprehend the man she met online, but the other man is unknown at this time. Investigators are submitting a stain from the couch (Item 3) the victim woke up on and the underwear (Item 4) the victim was wearing. Screening has been performed on both samples with the following results: Item 3 (couch) is positive for blood, and Item 4 (victim's underwear) is positive for blood and semen. Also collected were known blood samples from the female victim (Item 1) and the male suspect (Item 2).

Items Submitted (Sample Pack S6):

Item 1: Known blood from the female victim

Item 2: Known blood from the male suspect

Item 3: Questioned blood stain from couch (pink)

Item 4: Questioned blood and semen mixture from victim's underwear (off-white)

Part II: DNA INTERPRETATION

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

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

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

Part III: ADDITIONAL COMMENTS

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

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

RELEASE OF DATA TO ACCREDITATION BODIES

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

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

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

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

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

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

A2LA Certificate No.

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

Authorized Contact Person and Title

Laboratory Name

Location (City/State)