



DNA-Blood Test No. 20-5803

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 90 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, 3, and 4 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 blood from the same female donor. Item 2 (75 μ l) was created using blood collected from a male donor. Item 4 (50 μ l) was created using blood from a female donor whose known standard was not provided. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on April 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

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

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	
<hr style="border-top: 1px dashed black;"/>						
1	11,17.3	24,24	11,15	16,17	7,11	*
	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NM	NM	NM	NM	
<hr style="border-top: 1px dashed black;"/>						
2	15,16	17,19	11,12	16,17	12,13	*
	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31.2,32.2	11,17	X,Y	12,13
	24,26	10,12	8,12	17,20	7,9.3	9,10
	16,16	10	17	17	2	
<hr style="border-top: 1px dashed black;"/>						
3	11,17.3	24,24	11,15	16,17	7,11	*
	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NM	NM	NM	NM	
<hr style="border-top: 1px dashed black;"/>						
4	13,17	25,25	12,14	16,17	10,11	*
	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25	3.2,7	5,13	12,25.2	7,8	6,8
	16,18	NM	NM	NM	NM	

YSTR Results

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

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<hr style="border-top: 1px dashed black;"/>									
2	38,38	17	15,17	13	30	21	10	11	14
	14	11	13	21	31	15	16	11	25
	41	12	*	17	17	19	21	*	11

* 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 20-5803 DNA-Blood test is part of the DNA Sample Specific Series, where participants are advised of the body fluid(s) that made up the questioned stains. The test is designed to allow participants to assess their proficiency in the analysis of dried stains. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Items 1 and 3 were created using blood from the same female donor. Item 2 was created using blood collected from a male donor. Item 4 was created using blood from a female donor whose known standard was not provided. (See Manufacturer's Information for preparation details)

Of the 90 participants that returned results, 79 reported DNA interpretations. Eleven participants stated that the samples were only analyzed for database purposes.

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

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

A total of 20 participants reported the use of Probabilistic Genotyping (PG) software on either solely the questioned items or all four items. No inconsistent results were reported by these participants.

One participant reported an allelic response that differed from the consensus/predistribution results for Item 4. This participant was missing an allele (19) at the FGA locus. Based on the interpretations above, this inconsistency did not appear to affect this participant's conclusions.

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

3PAX3U	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
<hr/>						
3QJAHB	GlobalFiler™ Express					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17	NM			NM	
<hr/>						
4EQ6RP	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17	No Result			No Result	
<hr/>						
4W4PL9	GlobalFiler™ Express					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
<hr/>						
4Z3ZH9	GlobalFiler™ Express					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
<hr/>						
639L8T	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					

TABLE 1

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

Item 1 - STR Results

6E32UA	NGM SElect					
		11,17.3	24,24	11,15	16,17	
1			13,14	14,15	18,19	11,14
		13,15	14,14.2	28,31.2	16,17	X,X
		21,29		18,19	8,9.3	
		15,17				
6WMRU9	Identifiler® Direct					
			24	16,17	7,11	
1		8,9	13,14		11,12	11,14
		13,15	14,14.2	28,31.2	X,X	11,13
		21,29			8,9.3	7,8
		15,17				
72CPV6	GlobalFiler™					
		11,17.3	24,24	11,15	16,17	7,11
1		8,9	13,14	14,15	18,19	11,12
		13,15	14,14.2	28,31.2	16,17	X,X
		21,29		18,19	8,9.3	7,8
		15,17				
738BPV	PowerPlex® Fusion 6C					
		11,17.3	24	11,15	16,17	7,11
1		8,9	13,14	14,15	18,19	11,12
		13,15	14,14.2	28,31.2	16,17	X
		21,29	9,13	17	18,19	8,9.3
		15,17				7,8
7LJXDP	GlobalFiler™					
		11,17.3	24	11,15	16,17	7,11
1		8,9	13,14	14,15	18,19	11,12
		13,15	14,14.2	28,31.2	16,17	X
		21,29		18,19	8,9.3	7,8
		15,17				
7RPTWP	GlobalFiler™					
		11,17.3	24,24	11,15	16,17	7,11
1		8,9	13,14	14,15	18,19	11,12
		13,15	14,14.2	28,31.2	16,17	X,X
		21,29		18,19	8,9.3	7,8
		15,17				
7V9K9R	GlobalFiler™ (STRmix)					
		11,17.3	24	11,15	16,17	7,11
1		8,9	13,14	14,15	18,19	11,12
		13,15	14,14.2	28,31.2	16,17	X
		21,29		18,19	8,9.3	7,8
		15,17				

TABLE 1

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

Item 1 - STR Results

88TM4N	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		
8NGXQQ	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
8TW7EQ	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
9PRZCP	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
9QLQH4	Identifiler®					
		24,24		16,17	7,11	
1	8,9	13,14			11,12	11,14
	13,15	14,14.2	28,31.2		X,X	11,13
	21,29				8,9.3	7,8
	15,17					
9YX43L	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		
A4KDM4	GlobalFiler™ Express					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17	NM			NM	

TABLE 1

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

Item 1 - STR Results

AF2X8Z	PowerPlex® Fusion					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17		8,9.3	7,8
	15,17	NR				
APM3GK	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		
B7UHZR	PowerPlex® Fusion 6C					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29	9,13	17	18,19	8,9.3	7,8
	15,17					
BMGWEJ	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
C7K2GJ	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
CE48EQ	PowerPlex® Fusion 6C					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17	18,19	8,9.3	7,8
	15,17					
CJAZ9L	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					

TABLE 1

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

Item 1 - STR Results

CTZLCY	PowerPlex® Fusion					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17		8,9.3	7,8
	15,17					
CTZLEJ	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		
DA4FJY	PowerPlex® 16 ESI Fast					
	11,17.3	24,24	11,15	16,17		
1		13,14	14,15	18,19		11,14
	13,15	14,14.2	28,31.2	16,17	XX	
	21,29				8,9.3	
	15,17					
DCAZ9J	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
DF6RGG	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		
DPRQ62	VeriFiler™ Express					
	11,17.3	24,24	11,15	16,17	7,11	11,12
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29	9,13	17,17		8,9.3	7,8
	15,17					
E9P9WG	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		

TABLE 1

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

Item 1 - STR Results

ECPJTG	PowerPlex® Fusion 6C					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17	18,19	8,9.3	7,8
	15,17					
EQ3RRZ	GlobalFiler™ Express					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29		18,19	8,9.3	7,8	
	15,17	NM			NM	
EU6TUH	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		
EZ9WGV	PowerPlex® Fusion					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17		8,9.3	7,8
	15,17	N/R				
F4PJTE	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29		18,19	8,9.3	7,8	
	15,17					
FFHZHF	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		
FLABTE	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29		18,19	8,9.3	7,8	
	15,17	No Results			No Results	

TABLE 1

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

Item 1 - STR Results

FRXVU	PowerPlex® Fusion					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17		8,9.3	7,8
	15,17	NR				
FYVKDY	Identifiler® Direct					
		24		16,17	7,11	
1	8,9	13,14			11,12	11,14
	13,15	14,14.2	28,31.2		X,X	11,13
	21,29				8,9.3	7,8
	15,17					
GFC7CF	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
GNTPUT	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
H9VUWT	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17	--			--	
JHFKWQ	PowerPlex® Fusion 5C					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17		8,9.3	7,8
	15,17					
JPPAE	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					

TABLE 1

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

Item 1 - STR Results

JTDK9U	Verifiler Express					
	11,17.3	24,24	11,15	16,17	7,11	11,12
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17		8,9.3	7,8
	15,17					
JVFLAR	PowerPlex®					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17		8,9.3	7,8
	15,17					
KDZC9Q	PowerPlex® Fusion					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17		8,9.3	7,8
	15,17					
KGEADT	GlobalFiler™ Express					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17	NM			NM	
LGUTXQ	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17					
LMK38N	PowerPlex® Fusion 5C					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17		8,9.3	7,8
	15,17	NR				
M794EB	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					

TABLE 1

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

Item 1 - STR Results

M7UH6A	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		
MGNXRP	Identifiler® Plus					
		24,24		16,17	7,11	
1	8,9	13,14			11,12	11,14
	13,15	14,14.2	28,31.2		X,X	11,13
	21,29				8,9.3	7,8
	15,17					
NFBLPD	GlobalFiler™ (STRmix)					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17	NR			NR	
P747H7	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
Q4VD2C	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
QUKBFB	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
RBKH9H	PowerPlex® Fusion					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17		8,9.3	7,8
	15,17	NR				

TABLE 1

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

Item 1 - STR Results

RQF3P7	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
RTPQMK	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
T86BKJ	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17					
TH6Z47	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
TTJX9A	PowerPlex® 21					
	11,17.3	24,24		16,17	7,11	11,12
1	8,9	13,14		18,19	11,12	11,14
	13,15	14,14.2	28,31.2		X,X	11,13
	21,29	9,13	17,17		8,9.3	7,8
	15,17					
TWHA4A	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
UHKM3	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					

TABLE 1

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

Item 1 - STR Results

UWF2D2	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
V3MRF8	PowerPlex® Fusion 6C					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17	18,19	8,9.3	7,8
	15,17					
V66CZ2	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
V7K9R2	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		
VPF2DY	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17	No results			No results	
W7DLQD	PowerPlex® Fusion					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17		8,9.3	7,8
	15,17	NR				
WF3ALF	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					

TABLE 1

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

Item 1 - STR Results

WP8G32	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
WWUAEZ	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
X6HHCW	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
XRQV4F	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
XVTW7Y	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
XYR83X	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
YDR9FY	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					

TABLE 1

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

Item 1 - STR Results

YJFTHF	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
YUCZEY	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
Z4WQDW	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
ZMCYEW	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
ZTYMA3	PowerPlex® Fusion 6C					
	11,17.3	24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17	18,19	8,9.3	7,8
	15,17					
ZXRURB	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17	--			--	
ZY2WV	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
1	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					

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

3PAX3U	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
3QJAHB	GlobalFiler™ Express					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
4EQ6RP	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
4W4PL9	GlobalFiler™ Express					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16,16	10			2	
4Z3ZH9	GlobalFiler™ Express					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16,16	10			2	
639L8T	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
6E32UA	NGM SElect					
	15,16	17,19	11,12	16,17		
2		14,15	13,13	20,21		9,10
	18,20	14,14	31.2,32.2	11,17	X,Y	
	24,26			17,20	7,9.3	
	16,16					

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 2 - STR Results

6WMRU9	Identifiler® Direct					
		17,19		16,17	12,13	
2	9,10	14,15			12,13	9,10
	18,20	14	31.2,32.2		X,Y	12,13
	24,26				7,9.3	9,10
	16					
72CPV6	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16,16	10			2	
738BPV	PowerPlex® Fusion 6C					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26	10,12	8,12	17,20	7,9.3	9,10
	16	10	17	17		
7LXDP	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
7RPTWP	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16,16	10			2	
7V9K9R	GlobalFiler™ (STRmix)					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
88TM4N	PowerPlex® Fusion 6c					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31.2,32.2	11,17	X,Y	12,13
	24,26	10,12	8,12	17,20	7,9.3	9,10
	16,16	10	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 2 - STR Results

8NGXQQ	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
8TW7EQ	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
9PRZCP	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
9QLQH4	Identifiler®					
		17,19		16,17	12,13	
2	9,10	14,15			12,13	9,10
	18,20	14,14	31.2,32.2		X,Y	12,13
	24,26				7,9.3	9,10
	16,16					
9YX43L	PowerPlex® Fusion 6C					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31.2,32.2	11,17	X,Y	12,13
	24,26	10,12	8,12	17,20	7,9.3	9,10
	16,16	10	17	17		
A4KDM4	GlobalFiler™ Express					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
AF2X8Z	PowerPlex® Fusion					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26	10,12	8,12		7,9.3	9,10
	16	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

APM3GK	PowerPlex® Fusion 6C					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31,2,32,2	11,17	X,Y	12,13
	24,26	10,12	8,12	17,20	7,9,3	9,10
	16,16	10	17	17		
B7UHZR	PowerPlex® Fusion 6C					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31,2,32,2	11,17	X,Y	12,13
	24,26	10,12	8,12	17,20	7,9,3	9,10
	16	10	17	17		
BMGWEJ	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31,2,32,2	11,17	X,Y	12,13
	24,26			17,20	7,9,3	9,10
	16	10			2	
C7K2GJ	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31,2,32,2	11,17	X,Y	12,13
	24,26			17,20	7,9,3	9,10
	16,16	10			2	
CE48EQ	PowerPlex® Fusion 6C					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31,2,32,2	11,17	X,Y	12,13
	24,26	10,12	8,12	17,20	7,9,3	9,10
	16	10	17	17		
CJAZ9L	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31,2,32,2	11,17	X,Y	12,13
	24,26			17,20	7,9,3	9,10
	16	10			2	
CTZLCY	PowerPlex® Fusion					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31,2,32,2	11,17	X,Y	12,13
	24,26	10,12	8,12		7,9,3	9,10
	16	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

CTZLEJ	PowerPlex® Fusion 6C					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31,2,32,2	11,17	X,Y	12,13
	24,26	10,12	8,12	17,20	7,9,3	9,10
	16,16	10	17	17		
DA4FJY	PowerPlex® 16 ESI Fast					
	15,16	17,19	11,12	16,17		
2		14,15	13,13	20,21		9,10
	18,20	14,14	31,2,32,2	11,17	X,Y	
	24,26				7,9,3	
	16,16					
DCAZ9J	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31,2,32,2	11,17	X,Y	12,13
	24,26			17,20	7,9,3	9,10
	16,16	10			2	
DF6RGG	PowerPlex® Fusion 6C					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31,2,32,2	11,17	X,Y	12,13
	24,26	10,12	8,12	17,20	7,9,3	9,10
	16,16	10	17	17		
DPRQ62	VeriFiler™ Express					
	15,16	17,19	11,12	16,17	12,13	12,17
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31,2,32,2	11,17	X,Y	12,13
	24,26	10,12	8,12		7,9,3	9,10
	16,16				2	
E9P9WG	PowerPlex® Fusion 6C					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31,2,32,2	11,17	X,Y	12,13
	24,26	10,12	8,12	17,20	7,9,3	9,10
	16,16	10	17	17		
ECPJTG	PowerPlex® Fusion 6C					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31,2,32,2	11,17	X,Y	12,13
	24,26	10,12	8,12	17,20	7,9,3	9,10
	16	10	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 2 - STR Results

EQ3RRZ	GlobalFiler™ Express						
		15,16	17,19	11,12	16,17	12,13	
	2	9,10	14,15	13	20,21	12,13	9,10
		18,20	14	31.2,32.2	11,17	X,Y	12,13
		24,26			17,20	7,9.3	9,10
		16	10			2	
EU6TUH	PowerPlex® Fusion 6C						
		15,16	17,19	11,12	16,17	12,13	
	2	9,10	14,15	13,13	20,21	12,13	9,10
		18,20	14,14	31.2,32.2	11,17	X,Y	12,13
		24,26	10,12	8,12	17,20	7,9.3	9,10
		16,16	10	17	17		
EZ9WGV	PowerPlex® Fusion						
		15,16	17,19	11,12	16,17	12,13	
	2	9,10	14,15	13	20,21	12,13	9,10
		18,20	14	31.2,32.2	11,17	X,Y	12,13
		24,26	10,12	8,12		7,9.3	9,10
		16	10				
F4PJTE	GlobalFiler™						
		15,16	17,19	11,12	16,17	12,13	
	2	9,10	14,15	13	20,21	12,13	9,10
		18,20	14	31.2,32.2	11,17	X,Y	12,13
		24,26			17,20	7,9.3	9,10
		16	10			2	
FFHZHF	PowerPlex® Fusion 6C						
		15,16	17,19	11,12	16,17	12,13	
	2	9,10	14,15	13,13	20,21	12,13	9,10
		18,20	14,14	31.2,32.2	11,17	X,Y	12,13
		24,26	10,12	8,12	17,20	7,9.3	9,10
		16,16	10	17	17		
FLABTE	GlobalFiler™						
		15,16	17,19	11,12	16,17	12,13	
	2	9,10	14,15	13	20,21	12,13	9,10
		18,20	14	31.2,32.2	11,17	X,Y	12,13
		24,26			17,20	7,9.3	9,10
		16	10			2	
FRXVU	PowerPlex® Fusion						
		15,16	17,19	11,12	16,17	12,13	
	2	9,10	14,15	13	20,21	12,13	9,10
		18,20	14	31.2,32.2	11,17	X,Y	12,13
		24,26	10,12	8,12		7,9.3	9,10
		16	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

FYVKDY	Identifiler® Direct					
		17,19		16,17	12,13	
2	9,10	14,15			12,13	9,10
	18,20	14	31.2,32.2		X,Y	12,13
	24,26				7,9.3	9,10
	16					
GFC7CF	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
GNTPUT	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
H9VUWT	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16,16	10			2	
JHFKWQ	PowerPlex® Fusion 5C					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26	10,12	8,12		7,9.3	9,10
	16	10				
JPPAE	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
JTDK9U	Verifiler Express					
	15,16	17,19	11,12	16,17	12,13	12,17
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31.2,32.2	11,17	X,Y	12,13
	24,26	10,12	8,12		7,9.3	9,10
	16,16				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

JVFLAR	PowerPlex®					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31,2,32,2	11,17	X,Y	12,13
	24,26	10,12	8,12		7,9,3	9,10
	16,16	10				
KDZC9Q	PowerPlex® Fusion					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31,2,32,2	11,17	X,Y	12,13
	24,26	10,12	8,12		7,9,3	9,10
	16	10				
KGEADT	GlobalFiler™ Express					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31,2,32,2	11,17	X,Y	12,13
	24,26			17,20	7,9,3	9,10
	16	10			2	
LGUTXQ	PowerPlex® Fusion 6C					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31,2,32,2	11,17	X,Y	12,13
	24,26	10,12	8,12	17,20	7,9,3	9,10
	16,16	10	17	17		
LMK38N	PowerPlex® Fusion 5C					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31,2,32,2	11,17	X,Y	12,13
	24,26	10,12	8,12		7,9,3	9,10
	16	10				
M794EB	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31,2,32,2	11,17	X,Y	12,13
	24,26			17,20	7,9,3	9,10
	16	10			2	
M7UH6A	PowerPlex® Fusion 6C					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31,2,32,2	11,17	X,Y	12,13
	24,26	10,12	8,12	17,20	7,9,3	9,10
	16,16	10	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 2 - STR Results

MGNXRP	Identifiler® Plus					
		17,19		16,17	12,13	
2	9,10	14,15			12,13	9,10
	18,20	14,14	31.2,32.2		X,Y	12,13
	24,26				7,9.3	9,10
	16,16					
NFBLPD	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16,16	10			2	
P747H7	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
Q4VD2C	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16,16	10			2	
QUKBFB	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16,16	10			2	
RBKH9H	PowerPlex® Fusion					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26	10,12	8,12		7,9.3	9,10
	16	10				
RQF3P7	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	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

RTPQMK	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
T86BKJ	PowerPlex® Fusion 6C					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31.2,32.2	11,17	X,Y	12,13
	24,26	10,12	8,12	17,20	7,9.3	9,10
	16,16	10	17	17		
TH6Z47	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
TTJX9A	PowerPlex® 21					
	15,16	17,19		16,17	12,13	12,17
2	9,10	14,15		20,21	12,13	9,10
	18,20	14,14	31.2,32.2		X,Y	12,13
	24,26	10,12	8,12		7,9.3	9,10
	16,16					
TWHA4A	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16,16	10			2	
UHKKM3	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
UWF2D2	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16,16	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

V3MRF8	PowerPlex® Fusion 6C					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31,2,32,2	11,17	X,Y	12,13
	24,26	10,12	8,12	17,20	7,9,3	9,10
	16	10	17	17		
V66CZ2	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31,2,32,2	11,17	X,Y	12,13
	24,26			17,20	7,9,3	9,10
	16,16	10			2	
V7K9R2	PowerPlex® Fusion 6C					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31,2,32,2	11,17	X,Y	12,13
	24,26	10,12	8,12	17,20	7,9,3	9,10
	16,16	10	17	17		
VPF2DY	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31,2,32,2	11,17	X,Y	12,13
	24,26			17,20	7,9,3	9,10
	16	10			2	
W7DLQD	PowerPlex® Fusion					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31,2,32,2	11,17	X,Y	12,13
	24,26	10,12	8,12		7,9,3	9,10
	16	10				
WF3ALF	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31,2,32,2	11,17	X,Y	12,13
	24,26			17,20	7,9,3	9,10
	16,16	10			2	
WP8G32	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31,2,32,2	11,17	X,Y	12,13
	24,26			17,20	7,9,3	9,10
	16	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

WWUAEZ	GlobalFiler™						
		15,16	17,19	11,12	16,17	12,13	
	2	9,10	14,15	13,13	20,21	12,13	9,10
		18,20	14,14	31.2,32.2	11,17	X,Y	12,13
		24,26			17,20	7,9.3	9,10
	16,16	10			2		
X6HHCW	GlobalFiler™						
		15,16	17,19	11,12	16,17	12,13	
	2	9,10	14,15	13	20,21	12,13	9,10
		18,20	14	31.2,32.2	11,17	X,Y	12,13
		24,26			17,20	7,9.3	9,10
	16	10			2		
XRQV4F	GlobalFiler™						
		15,16	17,19	11,12	16,17	12,13	
	2	9,10	14,15	13,13	20,21	12,13	9,10
		18,20	14,14	31.2,32.2	11,17	X,Y	12,13
		24,26			17,20	7,9.3	9,10
	16,16	10			2		
XVTW7Y	GlobalFiler™						
		15,16	17,19	11,12	16,17	12,13	
	2	9,10	14,15	13	20,21	12,13	9,10
		18,20	14	31.2,32.2	11,17	X,Y	12,13
		24,26			17,20	7,9.3	9,10
	16	10			2		
XYR83X	GlobalFiler™						
		15,16	17,19	11,12	16,17	12,13	
	2	9,10	14,15	13	20,21	12,13	9,10
		18,20	14	31.2,32.2	11,17	X,Y	12,13
		24,26			17,20	7,9.3	9,10
	16	10			2		
YDR9FY	GlobalFiler™						
		15,16	17,19	11,12	16,17	12,13	
	2	9,10	14,15	13	20,21	12,13	9,10
		18,20	14	31.2,32.2	11,17	X,Y	12,13
		24,26			17,20	7,9.3	9,10
	16	10			2		
YJFTHF	GlobalFiler™						
		15,16	17,19	11,12	16,17	12,13	
	2	9,10	14,15	13,13	20,21	12,13	9,10
		18,20	14,14	31.2,32.2	11,17	X,Y	12,13
		24,26			17,20	7,9.3	9,10
	16,16	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

YUCZEY	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
Z4WQDW	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
ZMCYEW	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16	10			2	
ZTYMA3	PowerPlex® Fusion 6C					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13	20,21	12,13	9,10
	18,20	14	31.2,32.2	11,17	X,Y	12,13
	24,26	10,12	8,12	17,20	7,9.3	9,10
	16	10	17	17		
ZXRURB	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16,16	10			2	
ZY2WFV	GlobalFiler™					
	15,16	17,19	11,12	16,17	12,13	
2	9,10	14,15	13,13	20,21	12,13	9,10
	18,20	14,14	31.2,32.2	11,17	X,Y	12,13
	24,26			17,20	7,9.3	9,10
	16,16	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

3PAX3U	GlobalFiler™ (STRmix)					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
3QJAHB	Identifiler® Plus					
		24		16,17	7,11	
3	8,9	13,14			11,12	11,14
	13,15	14,14.2	28,31.2		XX	11,13
	21,29				8,9.3	7,8
	15,17					
4W4PL9	GlobalFiler™ Express					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
4Z3ZH9	GlobalFiler™ Express					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
639L8T	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
6E32UA	NGM SElect					
	11,17.3	24,24	11,15	16,17		
3		13,14	14,15	18,19		11,14
	13,15	14,14.2	28,31.2	16,17	XX	
	21,29			18,19	8,9.3	
	15,17					
6WMRU9	Identifiler® Plus					
		24		16,17	7,11	
3	8,9	13,14			11,12	11,14
	13,15	14,14.2	28,31.2		XX	11,13
	21,29				8,9.3	7,8
	15,17					

TABLE 1

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

Item 3 - STR Results

72CPV6	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
738BPV	PowerPlex® Fusion 6C (STRmix)					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17	18,19	8,9.3	7,8
	15,17					
7LJXDP	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
7RPTWP	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
7V9K9R	GlobalFiler™ (STRmix)					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
88TM4N	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		
8NGXQQ	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					

TABLE 1

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

Item 3 - STR Results

8TW7EQ	GlobalFiler™ (STRmix)					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
9PRZCP	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
9QLQH4	Identifiler®					
		24,24		16,17	7,11	
3	8,9	13,14			11,12	11,14
	13,15	14,14.2	28,31.2		X,X	11,13
	21,29				8,9.3	7,8
	15,17					
9YX43L	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		
A4KDM4	Identifiler® Plus					
		24		16,17	7,11	
3	8,9	13,14			11,12	11,14
	13,15	14,14.2	28,31.2		X,X	11,13
	21,29				8,9.3	7,8
	15,17					
AF2X8Z	PowerPlex® Fusion					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17		8,9.3	7,8
	15,17	NR				
APM3GK	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		

TABLE 1

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

Item 3 - STR Results

B7UHZR	PowerPlex® Fusion 6C (STRmix)					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17	18,19	8,9.3	7,8
	15,17					
BMGWEJ	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29		18,19	8,9.3	7,8	
	15,17					
C7K2GJ	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29		18,19	8,9.3	7,8	
	15,17					
CE48EQ	PowerPlex® Fusion 6C (STRmix)					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17	18,19	8,9.3	7,8
	15,17					
CJAZ9L	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29		18,19	8,9.3	7,8	
	15,17					
CTZLCY	PowerPlex® Fusion					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17	18,19	8,9.3	7,8
	15,17					
CTZLEJ	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		

TABLE 1

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

Item 3 - STR Results

DA4FJY	PowerPlex® 16 ESI Fast					
	11,17.3	24,24	11,15	16,17		
3		13,14	14,15	18,19		11,14
	13,15	14,14.2	28,31.2	16,17	X,X	
	21,29				8,9.3	
	15,17					
DCAZ9J	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29		18,19	8,9.3		7,8
	15,17					
DF6RGG	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		
DPRQ62	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29		18,19	8,9.3		7,8
	15,17					
E9P9WG	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		
ECPJTG	PowerPlex® Fusion 6C (STRmix)					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17	18,19	8,9.3	7,8
	15,17					
EQ3RRZ	Identifiler® Plus					
		24		16,17	7,11	
3	8,9	13,14			11,12	11,14
	13,15	14,14.2	28,31.2		X,X	11,13
	21,29				8,9.3	7,8
	15,17					

TABLE 1

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

Item 3 - STR Results

EU6TUH	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		
EZ9WGV	PowerPlex® Fusion					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17		8,9.3	7,8
	15,17	N/R				
F4PJTE	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
FFHZHF	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		
FRXVVU	PowerPlex® Fusion					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17		8,9.3	7,8
	15,17	NR				
FYVKDY	Identifiler® Plus					
		24		16,17	7,11	
3	8,9	13,14			11,12	11,14
	13,15	14,14.2	28,31.2		X,X	11,13
	21,29				8,9.3	7,8
	15,17					
GFC7CF	GlobalFiler™ (STRmix)					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					

TABLE 1

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

Item 3 - STR Results

GNTPUT	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
H9VUWT	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29			18,19	8,9.3	7,8
	15,17	--			--	
JHFKWQ	PowerPlex® Fusion 5C					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17		8,9.3	7,8
	15,17					
JPPAE	GlobalFiler™ (STRmix)					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
JTDK9U	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
JVFLAR	PowerPlex®					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29	9,13	17,17		8,9.3	7,8
	15,17					
KDZC9Q	PowerPlex® Fusion					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17		8,9.3	7,8
	15,17					

TABLE 1

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

Item 3 - STR Results

KGEADT	Identifiler® Plus					
		24		16,17	7,11	
3	8,9	13,14			11,12	11,14
	13,15	14,14.2	28,31.2		X,X	11,13
	21,29				8,9.3	7,8
	15,17					
LGUTXQ	PowerPlex® Fusion 6C (STRmix)					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17					
LMK38N	PowerPlex® Fusion 5C					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17		8,9.3	7,8
	15,17	NR				
M794EB	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
M7UH6A	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		
MGNXRP	Identifiler® Plus					
		24,24		16,17	7,11	
3	8,9	13,14			11,12	11,14
	13,15	14,14.2	28,31.2		X,X	11,13
	21,29				8,9.3	7,8
	15,17					
NFBLPD	GlobalFiler™ (STRmix)					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17	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

P747H7	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
Q4VD2C	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
QUKBFB	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
RBKH9H	PowerPlex® Fusion					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17		8,9.3	7,8
	15,17	NR				
RQF3P7	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
RTPQMK	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
T86BKJ	PowerPlex® Fusion 6C (STRmix)					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17					

TABLE 1

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

Item 3 - STR Results

TH6Z47	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
TTJX9A	PowerPlex® 21 (STRmix v2.7.0)					
	11,17.3	24,24		16,17	7,11	11,12
3	8,9	13,14		18,19	11,12	11,14
	13,15	14,14.2	28,31.2		X,X	11,13
	21,29	9,13	17,17		8,9.3	7,8
	15,17					
TWHA4A	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
UHKM3	GlobalFiler™ (STRmix)					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
UWF2D2	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
V3MRF8	PowerPlex® Fusion 6C (STRmix)					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17	18,19	8,9.3	7,8
	15,17					
V66CZ2	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					

TABLE 1

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

Item 3 - STR Results

V7K9R2	PowerPlex® Fusion 6C					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29	9,13	17,17	18,19	8,9.3	7,8
	15,17	NR	NR	NR		
W7DLQD	PowerPlex® Fusion					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17	18,19	8,9.3	7,8
	15,17	NR				
WF3ALF	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
WP8G32	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
WWUAEZ	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
X6HHCW	GlobalFiler™ (STRMIX)					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
XRQV4F	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X,X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					

TABLE 1

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

Item 3 - STR Results

XVTW7Y	GlobalFiler™ (STRmix)					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
XYR83X	GlobalFiler™ (STRmix)					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
YDR9FY	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
YJFTHF	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
YUCZEY	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
Z4WQDW	GlobalFiler™ (STRmix)					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					
ZMCYEW	GlobalFiler™					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29			18,19	8,9.3	7,8
	15,17					

TABLE 1

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

Item 3 - STR Results

ZTYMA3	PowerPlex® Fusion 6C (STRmix)					
	11,17.3	24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	X	11,13
	21,29	9,13	17	18,19	8,9.3	7,8
	15,17					
ZXRURB	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29			18,19	8,9.3	7,8
	15,17	--			--	
ZY2WFV	GlobalFiler™					
	11,17.3	24,24	11,15	16,17	7,11	
3	8,9	13,14	14,15	18,19	11,12	11,14
	13,15	14,14.2	28,31.2	16,17	XX	11,13
	21,29			18,19	8,9.3	7,8
	15,17					

TABLE 1

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

Item 4 - STR Results

3PAX3U	GlobalFiler™ (STRmix)					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
3QJAHB	Identifiler® Plus					
		25		16,17	10,11	
4	8,10	11,14			12,13	9,12
	12,20	14.2,15	32,33.2		X,X	8,13
	19,25				7,8	6,8
	16,18					
4W4PL9	GlobalFiler™ Express					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
4Z3ZH9	GlobalFiler™ Express					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
639L8T	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
6E32UA	NGM SElect					
	13,17	25,25	12,14	16,17		
4		11,14	15,15	17,18		9,12
	12,20	14.2,15	32,33.2	11,14	X,X	
	19,25			12,25.2	7,8	
	16,18					
6WMRU9	Identifiler® Plus					
		25		16,17	10,11	
4	8,10	11,14			12,13	9,12
	12,20	14.2,15	32,33.2		X,X	8,13
	19,25				7,8	6,8
	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 4 - STR Results

72CPV6	GlobalFiler™					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
738BPV	PowerPlex® Fusion 6C (STRmix)					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25	3.2,7	5,13	12,25.2	7,8	6,8
	16,18					
7LJXDP	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
7RPTWP	GlobalFiler™					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
7V9K9R	GlobalFiler™ (STRmix)					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
88TM4N	PowerPlex® Fusion 6C					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25	3.2,7	5,13	12,25.2	7,8	6,8
	16,18	NR	NR	NR		
8NGXQQ	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	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 4 - STR Results

8TW7EQ	GlobalFiler™ (STRmix)					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
9PRZCP	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
9QLQH4	Identifiler®					
		25,25		16,17	10,11	
4	8,10	11,14			12,13	9,12
	12,20	14.2,15	32,33.2		X,X	8,13
	19,25				7,8	6,8
	16,18					
9YX43L	PowerPlex® Fusion 6C					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25	3.2,7	5,13	12,25.2	7,8	6,8
	16,18	NR	NR	NR		
A4KDM4	Identifiler® Plus					
		25		16,17	10,11	
4	8,10	11,14			12,13	9,12
	12,20	14.2,15	32,33.2		X,X	8,13
	19,25				7,8	6,8
	16,18					
AF2X8Z	PowerPlex® Fusion					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25	3.2,7	5,13		7,8	6,8
	16,18	NR				
APM3GK	PowerPlex® Fusion 6C					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25	3.2,7	5,13	12,25.2	7,8	6,8
	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 4 - STR Results

B7UHZR	PowerPlex® Fusion 6C (STRmix)					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25	3.2,7	5,13	12,25.2	7,8	6,8
	16,18					
BMGWEJ	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
C7K2GJ	GlobalFiler™					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
CE48EQ	PowerPlex® Fusion 6C (STRmix)					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25	3.2,7	5,13	12,25.2	7,8	6,8
	16,18					
CJAZ9L	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
CTZLCY	PowerPlex® Fusion					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25	3.2,7	5,13		7,8	6,8
	16,18					
CTZLEJ	PowerPlex® Fusion 6C					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25	3.2,7	5,13	12,25.2	7,8	6,8
	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 4 - STR Results

DA4FJY	PowerPlex® 16 ESI Fast					
	13,17	25,25	12,14	16,17		
4		11,14	15,15	17,18		9,12
	12,20	14.2,15	32,33.2	11,14	X,X	
	19,25				7,8	
	16,18					
DCAZ9J	GlobalFiler™					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
DF6RGG	PowerPlex® Fusion 6C					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25	3.2,7	5,13	12,25.2	7,8	6,8
	16,18	NR	NR	NR		
DPRQ62	GlobalFiler™					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
E9P9WG	PowerPlex® Fusion 6C					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25	3.2,7	5,13	12,25.2	7,8	6,8
	16,18	NR	NR	NR		
ECPJTG	PowerPlex® Fusion 6C (STRmix)					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25	3.2,7	5,13	12,25.2	7,8	6,8
	16,18					
EQ3RRZ	Identifiler® Plus					
		25		16,17	10,11	
4	8,10	11,14			12,13	9,12
	12,20	14.2,15	32,33.2		X,X	8,13
	19,25				7,8	6,8
	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 4 - STR Results

EU6TUH	PowerPlex® Fusion 6C					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25	3.2,7	5,13	12,25.2	7,8	6,8
	16,18	NR	NR	NR		
EZ9WGV	PowerPlex® Fusion					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25	3.2,7	5,13		7,8	6,8
	16,18	N/R				
F4PJTE	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
FFHZHF	PowerPlex® Fusion 6C					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25	3.2,7	5,13	12,25.2	7,8	6,8
	16,18	NR	NR	NR		
FRXVVU	PowerPlex® Fusion					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25	3.2,7	5,13		7,8	6,8
	16,18	NR				
FYVKDY	Identifiler® Plus					
		25		16,17	10,11	
4	8,10	11,14			12,13	9,12
	12,20	14.2,15	32,33.2		X,X	8,13
	25				7,8	6,8
	16,18					
GFC7CF	GlobalFiler™ (STRmix)					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	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 4 - STR Results

GNTPUT	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
H9VUWT	GlobalFiler™					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	16,18	--			--	
JHFKWQ	PowerPlex® Fusion 5C					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25	3.2,7	5,13		7,8	6,8
	16,18					
JPPAE	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
JTDK9U	GlobalFiler™					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
JVFLAR	PowerPlex®					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25	3.2,7	5,13		7,8	6,8
	16,18					
KDZC9Q	PowerPlex® Fusion					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25	3.2,7	5,13		7,8	6,8
	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 4 - STR Results

KGEADT	Identifiler® Plus					
		25		16,17	10,11	
4	8,10	11,14			12,13	9,12
	12,20	14.2,15	32,33.2		X,X	8,13
	19,25				7,8	6,8
	16,18					
LGUTXQ	PowerPlex® Fusion 6C					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25	3.2,7	5,13	12,25.2	7,8	6,8
	16,18					
LMK38N	PowerPlex® Fusion 5C					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25	3.2,7	5,13		7,8	6,8
	16,18	NR				
M794EB	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
M7UH6A	PowerPlex® Fusion 6C					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25	3.2,7	5,13	12,25.2	7,8	6,8
	16,18	NR	NR	NR		
MGNXRP	Identifiler® Plus					
		25,25		16,17	10,11	
4	8,10	11,14			12,13	9,12
	12,20	14.2,15	32,33.2		X,X	8,13
	19,25				7,8	6,8
	16,18					
NFBLPD	GlobalFiler™					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	16,18	NR			NR	

TABLE 1

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

Item 4 - STR Results

P747H7	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
Q4VD2C	GlobalFiler™					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
QUKBFB	GlobalFiler™					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
RBKH9H	PowerPlex® Fusion					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25	3.2,7	5,13		7,8	6,8
	16,18	NR				
RQF3P7	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
RTPQMK	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
T86BKJ	PowerPlex® Fusion 6C					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25	3.2,7	5,13	12,25.2	7,8	6,8
	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 4 - STR Results

TH6Z47	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
TTJX9A	PowerPlex® 21 (STRmix v2.7.0)					
	13,17	25,25		16,17	10,11	10,11
4	8,10	11,14		17,18	12,13	9,12
	12,20	14.2,15	32,33.2		X,X	8,13
	19,25	3.2,7	5,13		7,8	6,8
	16,18					
TWHA4A	GlobalFiler™					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
UHKM3	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
UWF2D2	GlobalFiler™					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
V3MRF8	PowerPlex® Fusion 6C (STRmix)					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25	3.2,7	5,13	12,25.2	7,8	6,8
	16,18					
V66CZ2	GlobalFiler™					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	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 4 - STR Results

V7K9R2	PowerPlex® Fusion 6C					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25	3.2,7	5,13	12,25.2	7,8	6,8
	16,18	NR	NR	NR		
W7DLQD	PowerPlex® Fusion					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25	3.2,7	5,13		7,8	6,8
	16,18	NR				
WF3ALF	GlobalFiler™					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
WP8G32	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
WWUAEZ	GlobalFiler™					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
X6HHCW	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
XRQV4F	GlobalFiler™					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	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 4 - STR Results

XVTW7Y	GlobalFiler™ (STRmix)					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
XYR83X	GlobalFiler™ (STRmix)					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
YDR9FY	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
YJFTHF	GlobalFiler™					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
YUCZEY	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
Z4WQDW	GlobalFiler™ (STRmix)					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					
ZMCYEW	GlobalFiler™					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25			12,25.2	7,8	6,8
	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 4 - STR Results

ZTYMA3	PowerPlex® Fusion 6C (STRmix)					
	13,17	25	12,14	16,17	10,11	
4	8,10	11,14	15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X	8,13
	19,25	3.2,7	5,13	12,25.2	7,8	6,8
	16,18					
ZXRURB	GlobalFiler™					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	16,18	--			--	
ZY2WFV	GlobalFiler™					
	13,17	25,25	12,14	16,17	10,11	
4	8,10	11,14	15,15	17,18	12,13	9,12
	12,20	14.2,15	32,33.2	11,14	X,X	8,13
	19,25			12,25.2	7,8	6,8
	16,18					

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

3QJAHB	Yfiler™								
1									
<hr/>									
7RPTWP	Yfiler™								
1									
<hr/>									
A4KDM4	Yfiler™								
1									
<hr/>									
C7K2GJ	Yfiler™								
1									
<hr/>									
EQ3RRZ	Yfiler™								
1									
<hr/>									
KGEADT	Yfiler™								
1									
<hr/>									
ZY2WFV	Yfiler™								
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

3QJAHB	Yfiler™	17	15,17	13	30	21	10	11	14	
2		14	11	13	21	15	16			
							21		11	
639L8T	Yfiler™ Plus	38	17	15,17	13	30	21	10	11	14
2		14	11	13	21	31	15	16	11	25
		41	12		17	17	19	21		11
6E32UA	PowerPlex® Y 23	17	15,17	13	30	21	10	11	14	
2		14	11	13	21	15	16		25	
		12	11	17	17		21	11	11	
6WMRU9	Yfiler™	17	15,17	13	30	21	10	11	14	
2		14	11	13	21	15	16			
							21		11	
738BPV	PowerPlex® Y 23	17	15,17	13	30	21	10	11	14	
2		14	11	13	21	15	16		25	
		12	11	17	17		21	11	11	
7LJXDP	Yfiler™ Plus	38	17	15,17	13	30	21	10	11	14
2		14	11	13	21	31	15	16	11	25
		41	12		17	17	19	21		11
7RPTWP	Yfiler™	17	15,17	13	30	21	10	11	14	
2		14	11	13	21	15	16			
							21		11	
88TM4N	Yfiler™	17	15,17	13	30	21	10	11	14	
2		14	11	13	21	15	16			
							21		11	
8NGXQQ	Yfiler™ Plus	38	17	15,17	13	30	21	10	11	14
2		14	11	13	21	31	15	16	11	25
		41	12		17	17	19	21		11
8TW7EQ	PowerPlex® Y 23	17	15,17	13	30	21	10	11	14	
2		14	11	13	21	15	16		25	
		12	11,13	17	17		21	11	11	
9PRZCP	Yfiler™ Plus	38	17	15,17	13	30	21	10	11	14
2		14	11	13	21	31	15	16	11	25
		41	12		17	17	19	21		11
9QLQH4	Yfiler™	17	15,17	13	30	21	10	11	14	
2		14	11	13	21	15	16			
							21		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										
9YX43L	Yfiler™									
		17	15,17	13	30	21	10	11	14	
2	14	11	13	21		15	16			
							21			11
A4KDM4	Yfiler™									
		17	15,17	13	30	21	10	11	14	
2	14	11	13	21		15	16			
							21			11
AF2X8Z	Yfiler™ Plus									
	38	17	15,17	13	30	21	10	11	14	
2	14	11	13	21	31	15	16	11	25	
	41	12		17	17	19	21			11
APM3GK	Yfiler™									
		17	15,17	13	30	21	10	11	14	
2	14	11	13	21		15	16			
							21			11
B7UHZR	PowerPlex® Y 23									
		17	15,17	13	30	21	10	11	14	
2	14	11	13	21		15	16			25
		12	11	17	17		21	11		11
BMGWEJ	Yfiler™ Plus									
	38	17	15,17	13	30	21	10	11	14	
2	14	11	13	21	31	15	16	11	25	
	41	12		17	17	19	21			11
C7K2GJ	Yfiler™									
		17	15,17	13	30	21	10	11	14	
2	14	11	13	21		15	16			
							21			11
CE48EQ	PowerPlex® Y 23									
		17	15,17	13	30	21	10	11	14	
2	14	11	13	21		15	16			25
		12	11	17	17		21	11		11
CJAZ9L	Yfiler™ Plus									
	38	17	15,17	13	30	21	10	11	14	
2	14	11	13	21	31	15	16	11	25	
	41	12		17	17	19	21			11
CTZLEJ	Yfiler™									
		17	15,17	13	30	21	10	11	14	
2	14	11	13	21		15	16			
							21			11
DF6RGG	Yfiler™									
		17	15,17	13	30	21	10	11	14	
2	14	11	13	21		15	16			
							21			11
E9P9WG	Yfiler™									
		17	15,17	13	30	21	10	11	14	
2	14	11	13	21		15	16			
							21			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										
EQ3RRZ	Yfiler™									
		17	15,17	13	30	21	10	11	14	
2	14	11	13	21		15	16			
							21			11
EU6TUH	Yfiler™									
		17	15,17	13	30	21	10	11	14	
2	14	11	13	21		15	16			
							21			11
EZ9WGV	Yfiler™ Plus									
	38	17	15,17	13	30	21	10	11	14	
2	14	11	13	21	31	15	16	11	25	
	41	12		17	17	19	21			11
FFHZHF	Yfiler™									
		17	15,17	13	30	21	10	11	14	
2	14	11	13	21		15	16			
							21			11
FRXVU	Yfiler™ Plus									
	38	17	15,17	13	30	21	10	11	14	
2	14	11	13	21	31	15	16	11	25	
	41	12		17	17	19	21			11
FYVKDY	Yfiler™									
		17	15,17	13	30	21	10	11	14	
2	14	11	13	21		15	16			
							21			11
JHFKWQ	Yfiler™									
		17	15,17	13	30	21	10	11	14	
2	14	11	13	21		15	16			
							21			11
KGEADT	Yfiler™									
		17	15,17	13	30	21	10	11	14	
2	14	11	13	21		15	16			
							21			11
LGUTXQ	PowerPlex® Y 23									
		17	15,17	13	30	21	10	11	14	
2	14	11	13	21		15	16		25	
		12	11	17	17		21	11		11
LMK38N	Yfiler™ Plus									
	38	17	15,17	13	30	21	10	11	14	
2	14	11	13	21	31	15	16	11	25	
	41	12		17	17	19	21			11
M794EB	Yfiler™ Plus									
	38	17	15,17	13	30	21	10	11	14	
2	14	11	13	21	31	15	16	11	25	
	41	12		17	17	19	21			11
M7UH6A	Yfiler™									
		17	15,17	13	30	21	10	11	14	
2	14	11	13	21		15	16			
							21			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

NFBLPD	Yfiler™								
		17	15,17	13	30	21	10	11	14
2		14	11	13	21	15	16		
							21		11
P747H7	Yfiler™ Plus								
		38	17	15,17	13	30	21	10	11
2		14	11	13	21	31	15	16	11
		41	12		17	17	19	21	11
RBKH9H	Yfiler™ Plus								
		38	17	15,17	13	30	21	10	11
2		14	11	13	21	31	15	16	11
		41	12		17	17	19	21	11
RQF3P7	Yfiler™ Plus								
		38	17	15,17	13	30	21	10	11
2		14	11	13	21	31	15	16	11
		41	12		17	17	19	21	11
RTPQMK	Yfiler™ Plus								
		38	17	15,17	13	30	21	10	11
2		14	11	13	21	31	15	16	11
		41	12		17	17	19	21	11
T86BKJ	PowerPlex® Y 23								
		17	15,17	13	30	21	10	11	14
2		14	11	13	21	15	16		25
		12	11	17	17		21	11	11
TH6Z47	Yfiler™ Plus								
		38	17	15,17	13	30	21	10	11
2		14	11	13	21	31	15	16	11
		41	12		17	17	19	21	11
UHKKM3	PowerPlex® Y 23								
		17	15,17	13	30	21	10	11	14
2		14	11	13	21	15	16		25
		12	11	17	17		21	11	11
V3MRF8	PowerPlex® Y 23								
		17	15,17	13	30	21	10	11	14
2		14	11	13	21	15	16		25
		12	11	17	17		21	11	11
V7K9R2	Yfiler™								
		17	15,17	13	30	21	10	11	14
2		14	11	13	21	15	16		
							21		11
W7DLQD	Yfiler™ Plus								
		38	17	15,17	13	30	21	10	11
2		14	11	13	21	31	15	16	11
		41	12		17	17	19	21	11
WP8G32	Yfiler™ Plus								
		38	17	15,17	13	30	21	10	11
2		14	11	13	21	31	15	16	11
		41	12		17	17	19	21	11

TABLE 2

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

Item 2 - YSTR Results

YDR9FY	Yfiler™ Plus								
	38	17	15,17	13	30	21	10	11	14
2	14	11	13	21	31	15	16	11	25
	41	12		17	17	19	21		11
YUCZEY	Yfiler™ Plus								
	38	17	15,17	13	30	21	10	11	14
2	14	11	13	21	31	15	16	11	25
	41	12		17	17	19	21		11
ZY2WFV	Yfiler™								
		17	15,17	13	30	21	10	11	14
2	14	11	13	21		15	16		
							21		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

3QJAHB	Yfiler™	-	-	-	-	-	-	-	-
3		-	-	-	-	-	-	-	-
7RPTWP	Yfiler™	-	-	-	-	-	-	-	-
3		-	-	-	-	-	-	-	-
A4KDM4	Yfiler™	-	-	-	-	-	-	-	-
3		-	-	-	-	-	-	-	-
AF2X8Z	Yfiler™ Plus	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
C7K2GJ	Yfiler™	-	-	-	-	-	-	-	-
3		-	-	-	-	-	-	-	-
EQ3RRZ	Yfiler™	-	-	-	-	-	-	-	-
3		-	-	-	-	-	-	-	-
EZ9WGV	Yfiler™ Plus	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
FRXVU	Yfiler™ Plus	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
KGEADT	Yfiler™	-	-	-	-	-	-	-	-
3		-	-	-	-	-	-	-	-
LMK38N	Yfiler™ Plus	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
RBKH9H	Yfiler™ Plus	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
W7DLQD	Yfiler™ Plus	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

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 3 - YSTR Results

ZY2WFV Yfiler™

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 4 - YSTR Results

3QJAHB	Yfiler™	-	-	-	-	-	-	-	-
4		-	-	-	-	-	-	-	-
6WMRU9	Yfiler™	-	-	-	-	-	-	-	-
4		-	-	-	-	-	-	-	-
7RPTWP	Yfiler™	-	-	-	-	-	-	-	-
4		-	-	-	-	-	-	-	-
A4KDM4	Yfiler™	-	-	-	-	-	-	-	-
4		-	-	-	-	-	-	-	-
AF2X8Z	Yfiler™ Plus	NR	NR	NR	NR	NR	NR	NR	NR
4		NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
C7K2GJ	Yfiler™	-	-	-	-	-	-	-	-
4		-	-	-	-	-	-	-	-
EQ3RRZ	Yfiler™	-	-	-	-	-	-	-	-
4		-	-	-	-	-	-	-	-
EZ9WGV	Yfiler™ Plus	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
4		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
FRXVU	Yfiler™ Plus	NR	NR	NR	NR	NR	NR	NR	NR
4		NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
KGEADT	Yfiler™	-	-	-	-	-	-	-	-
4		-	-	-	-	-	-	-	-
LMK38N	Yfiler™ Plus	NR	NR	NR	NR	NR	NR	NR	NR
4		NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
RBKH9H	Yfiler™ Plus	NR	NR	NR	NR	NR	NR	NR	NR
4		NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR

TABLE 2

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

Item 4 - YSTR Results

W7DLQD	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
ZY2WFV	Yfiler™								
4									

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
3PAX3U	Yes	No	No	No	AF2X8Z	Yes	No	No	No
3QJAHB	Yes	No	No	No	APM3GK	Yes	No	No	No
4EQ6RP	No Interpretations Reported, DNA Analyzed for Database purposes only.				B7UHZR	Yes	No	No	No
4W4PL9	Yes	No	No	No	BMGWEJ	Yes	No	No	No
4Z3ZH9	Yes	No	No	No	C7K2GJ	No Interpretations Reported, DNA Analyzed for Database purposes only.			
639L8T	Yes	No	No	No	CE48EQ	Yes	No	No	No
6E32UA	Yes	No	No	No	CJAZ9L	Yes	No	No	No
6WMRU9	Yes	No	No	No	CTZLCY	Yes	No	No	No
72CPV6	Yes	No	No	No	CTZLEJ	Yes	No	No	No
738BPV	Yes	No	No	No	DA4FJY	Yes	No	No	No
7LJXDP	Yes	No	No	No	DCAZ9J	Yes	No	No	No
7RPTWP	No Interpretations Reported, DNA Analyzed for Database purposes only.				DF6RGG	Yes	No	No	No
7V9K9R	Yes	No	No	No	DPRQ62	Yes	No	No	No
88TM4N	Yes	No	No	No	E9P9WG	Yes	No	No	No
8NGXQQ	Yes	No	No	No	ECPJTG	Yes	No	No	No
8TW7EQ	Yes	No	No	No	EQ3RRZ	Yes	No	No	No
9PRZCP	Yes	No	No	No	EU6TUH	No Interpretations Reported, DNA Analyzed for Database purposes only.			
9QLQH4	Yes	No	No	No	EZ9WGV	Yes	No	No	No
9YX43L	Yes	No	No	No	F4PJTE	Yes	No	No	No
A4KDM4	Yes	No	No	No	FFHZHF	Yes	No	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
FLABTE	No Interpretations Reported, DNA Analyzed for Database purposes only.				RBKH9H	Yes	No	No	No
FRXWU	Yes	No	No	No	RQF3P7	Yes	No	No	No
FYVKDY	Yes	No	No	No	RTPQMK	Yes	No	No	No
GFC7CF	Yes	No	No	No	T86BKJ	Yes	No	No	No
GNTPUT	Yes	No	No	No	TH6Z47	Yes	No	No	No
H9VUWT	Yes	No	No	No	TTJX9A	Yes	No	No	No
JHFKWQ	Yes	No	No	No	TWHA4A	Yes	No	No	No
JJPPAE	Yes	No	No	No	UHKKM3	Yes	No	No	No
JTDK9U	Yes	No	No	No	UWF2D2	No Interpretations Reported, DNA Analyzed for Database purposes only.			
JVFLAR	Yes	No	No	No	V3MRF8	Yes	No	No	No
KDZC9Q	Yes	No	No	No	V66CZ2	Yes	No	No	No
KGEADT	Yes	No	No	No	V7K9R2	Yes	No	No	No
LGUTXQ	Yes	No	No	No	VPF2DY	No Interpretations Reported, DNA Analyzed for Database purposes only.			
LMK38N	Yes	No	No	No	W7DLQD	Yes	No	No	No
M794EB	Yes	No	No	No	WF3ALF	Yes	No	No	No
M7UH6A	Yes	No	No	No	WP8G32	Yes	No	No	No
MGNXRP	Yes	No	No	No	WWUAEZ	Yes	No	No	No
NFBLPD	Yes	No	No	No	X6HHCW	Yes	No	No	No
P747H7	Yes	No	No	No	XRQV4F	Yes	No	No	No
Q4VD2C	No Interpretations Reported, DNA Analyzed for Database purposes only.				XVTW7Y	Yes	No	No	No
QUKBFB	No Interpretations Reported, DNA Analyzed for Database purposes only.				XYR83X	Yes	No	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
YDR9FY	Yes	No	No	No					
YJFTHF	Yes	No	No	No					
YUCZEY	Yes	No	No	No					
Z4WQDW	Yes	No	No	No					
ZMCYEW	No Interpretations Reported, DNA Analyzed for Database purposes only.								
ZTYMA3	Yes	No	No	No					
ZXRURB	Yes	No	No	No					
ZY2WV	No Interpretations Reported, DNA Analyzed for Database purposes only.								

DNA Interpretation					
Response Summary			Participants reporting DNA results: 90		
<i>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)?</i>					
		Victim (Item 1)		Suspect (Item 2)	
		<u>Item 3</u>	<u>Item 4</u>	<u>Item 3</u>	<u>Item 4</u>
Yes		79	0	0	0
No		0	79	79	79
Inc		0	0	0	0
No Interpretation		0	0	0	0
No Response		0	0	0	0

Participants analyzing DNA for database purposes only: 11

Additional Comments

TABLE 5

WebCode	Additional Comments
3QJAHB	Extraction: Item 1 and Item 2 were extracted using in-situ method. Item 3 and Item 4 were extracted using Promega DNA-IQ Purification Kit via TECAN Freedom EVO® HID EVOLution™ Platform. 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 AmpFLSTR Identifiler Plus PCR Amplification Kit (in the midst of validating the GlobalFiler Casework Amplification Kit) on ABI GeneAmp PCR System 9700. Item 1, Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4. Electrophoresis were carried out on ABI 3130xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4 (Y-Filer Kit). Quality Control: Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results. NM: Non-male allele
6E32UA	Y-STR analysis not undertaken on samples which gave female NGMSElect results.
6WMRU9	Extraction: Item 1 and Item 2 were extracted using in-situ method while Item 3 and Item 4 were extracted using Chelex extraction method. 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: Item 1 and Item 2 were amplified using AmFISTR Identifiler Direct Kit while Item 3 and Item 4 were amplified using AmFISTR Identifiler Plus kit on 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification were carried out on Item 2 and Item 4 using AmFISTR Y-Filer kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 1 and Item 2 (Identifiler Direct), Item 3 and Item 4 (Identifiler Plus). Electrophoresis for Y-Filer were carried out on Genetic Analyzer 3500xl for Item 2 and Item 4. Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
72CPV6	Items 3 and 4 were extracted via differential separation, per laboratory protocol. No human DNA was detected in the sperm fractions, so the report will reflect the non-sperm fraction (epi-fraction) only.
88TM4N	NR = No Results
8TW7EQ	The Y-STR amplification result of item 2 resulted in a full profile with one drop-in peak at DYS549 (13, 139 RFU). The height of this peak is within our laboratory parameters for drop-in and would be designated as such in casework.
9YX43L	NR=No Result ([Name] 6/10/2020)
A4KDM4	Extraction: Item 1 and Item 2 were extracted using in-situ method. Item 3 and Item 4 were extracted using Promega DNA-IQ Purification Kit via TECAN Freedom EVO® HID EVOLution™ Platform. 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 AmpFLSTR Identifiler Plus PCR Amplification Kit (in the midst of validating the GlobalFiler Casework Amplification Kit) on ABI GeneAmp PCR System 9700. Item 1, Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4. Electrophoresis were carried out on ABI 3130xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4 (Y-Filer Kit). Quality Control: Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results. NM: Non-male allele
AF2X8Z	NR = No Results
APM3GK	NR = No Result ([Name] 5/23/2020)
CTZLEJ	NR = No Result(s)
DF6RGG	NR=No result
E9P9WG	KEY: NR = No Result

TABLE 5

WebCode	Additional Comments
EQ3RRZ	Extraction: Item 1 and Item 2 were extracted using in-situ method. Item 3 and Item 4 were extracted using Chelex 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 AmpFLSTR Identifiler Plus PCR Amplification Kit (in the midst of validating the GlobalFiler Casework Amplification Kit) on ABI GeneAmp PCR System 9700. Item 1, Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4. Electrophoresis were carried out on ABI 3130xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4 (Y-Filer Kit). Quality Control: Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results. NM: Non-male allele
EU6TUH	NR = No Result
EZ9WGV	N/R = No Results
FFHZHF	NR=No Results
FRXVU	NR=No Results
FYVKDY	1. Item 1 and Item 2 were extracted using in-situ method while Item 3 and Item 4 were extracted using Chelex extraction method. 2. Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification Kit on the Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 System. 3. Item 1 and Item 2 were amplified using AmpFLSTR Identifiler Direct PCR Amplification Kit while Item 3 and Item 4 were amplified using AmpFLSTR Identifiler Plus Amplification Kit on 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification was carried out on Item 2 using AmpFLSTR Y-filer PCR Amplification Kit on the 9700 GeneAmp PCR System. 4. Electrophoresis was carried out on the Applied Biosystems 3500xl Genetic Anayzer with GeneMapper ID-X Software for Item 1, Item 2, Item 3 and Item 4. 5. Reagent blank, positive control and negative control were analysed throughout the analysis and all gave the intended results.
KGEADT	Extraction: Item 1 and Item 2 were extracted using in-situ method. Item 3 and Item 4 were extracted using Chelex 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 AmpFLSTR Identifiler Plus PCR Amplification Kit (in the midst of validating the GlobalFiler Casework Amplification Kit) on ABI GeneAmp PCR System 9700. Item 1, Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4. Electrophoresis were carried out on ABI 3130xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4 (Y-Filer Kit). Quality Control: Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results. NM: Non-male allele
LMK38N	NR=no results
M7UH6A	NR = No Results
RBKH9H	NR = No Result
V3MRF8	The only sample suitable for Y-STR testing was the reference sample collected from the male suspect.
V7K9R2	NR = No Result
W7DLQD	NR= No Results
ZMCYEW	Test participant functions as Y-screen technician and does not perform interpretations.
ZXRURB	Items 3 and 4 were run as differentials. Only reported on epi fractions as the samples are bloodstains and the sperm fractions would only have carryover and not be different than the epi.

-End of Report-
(Appendix may follow)

Test No. 20-5803: DNA-Blood

DATA MUST BE SUBMITTED BY **July 6, 2020, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234D

WebCode: 7HZ3AW

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 assault and kidnapping of a female victim. The victim's claim is that while she was running in a park, a man approached her with a knife and forced her into a nearby van. He then drove her to an ATM and forced her to withdraw cash to give to him. When he tried to force the victim back into the van, she was able to fight him off but was cut on the hand in the process. She then started running away and the suspect immediately drove off. Police identified a van matching the victim's description in the area and arrested a suspect. Investigators are submitting a stain from the shirt (Item 3) the suspect was wearing and a stain from the shirt (Item 4) the victim was wearing. Screening has been performed on both samples with the following results: Item 3 (suspect's shirt) and Item 4 (victim's shirt) are both positive for blood.

Items Submitted (Sample Pack S3):

Item 1: Known blood from the female victim

Item 2: Known blood from the male suspect

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

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

Part I (continued): DNA Analysis - Additional DNA

- Use this section to report results for loci not currently listed in other sections of the data sheet.
- Report alleles in numerical order, separated by a comma.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [].
- Click "Add Row" to show another row of boxes for entry.

Locus	Item 1	Item 2	Item 3	Item 4

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)