



DNA-Mixture Test No. 24-5801

Summary Report

Each participant received a sample set consisting of two known bloodstains and two questioned stains which they were asked to analyze using their existing protocols. Data were returned from 175 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 set consisted of two known bloodstains on white fabric (Items 1 and 2), and two questioned stains on colored fabric (Items 3 and 4). Participants were asked to analyze these items using their existing protocols.

SAMPLE PREPARATION: The stains on Items 1, 2, and 4 were prepared using human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. The stain on Item 3 was prepared using a mixture of human whole blood and semen. Item 1 (50 μ L) was created using blood from a female donor. Item 2 (50 μ L) was created using blood from a male donor. Item 3 (50 μ L) was created using a 1:1 mixture of blood from the female donor used in Item 1 and semen from the male donor used in Item 2. Item 4 (50 μ L) was created using a 1:1 mixture of blood from the female donor used in Item 1 and blood from a male donor whose known standard was not provided. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on January 02, 2024 following completion of the verification stage.

SAMPLE SET ASSEMBLY: For each sample set, all Items (1-4) were packaged into separate envelopes and then placed together in a pre-labeled sample set envelope and sealed. The sealed sample set 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	
1	15,17.3	17,20	10,14	16,17	11,11	*
	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	X,X	11,12
	19,23	13,13	5,7	20,27.2	7,9.3	8,12
	15,17	NM	NM	NM	NM	
2	12,15	16,18	11,14	15,15	11,13	*
	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	13,13	7,12	28.2,29.2	7,8	8,11
	16,17	10	17	15	2	
3-Blood	15,17.3	17,20	10,14	16,17	11,11	*
	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	X,X	11,12
	19,23	13,13	5,7	20,27.2	7,9.3	8,12
	15,17	NM	NM	NM	NM	
3-Semen	12,15	16,18	11,14	15,15	11,13	*
	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	13,13	7,12	28.2,29.2	7,8	8,11
	16,17	10	17	15	2	
4	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	*
	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20	14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11	20	17	2	

YSTR Results

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

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
2	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
	37	10	12	17	15	19	22	12	11
3-Semen	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
	37	10	12	17	15	19	22	12	11
4	34,36	14	11,15	13	29	23	11	13	13
	15	12	12	19	29	16	17	12	23
	38	12	13	20	17	22	23	10	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

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

DNA Analysis

For STR results, all participants reported consistent results, with the exception of five participants which reported an inconsistent result for one or more loci.

For YSTR results, all participants reported consistent results, with the exception of one participant.

DNA Interpretations

All participants that returned results, reported DNA interpretations.

For Item 3, all but one participant included the victim (Item 1), and all participants included the suspect (Item 2) as possible contributors to the stain. The remaining participant excluded the victim as a possible contributor.

For Item 4, all participants included the victim (Item 1), and all but two participants excluded the suspect (Item 2) as possible contributors to the stain. The two remaining participants reported "Inconclusive."

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

29ACNM	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	NR			NR	
2A46J7	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
2EETJ3	PowerPlex® Fusion 5C					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
2GZXRZ	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
2JTTFU	GlobalFiler™ Express					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
2LN8KX	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	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

2QBVDZ	PowerPlex® 5C					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
2R3V2U	GlobalFiler™ Express					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
33XNMQ	GlobalFiler™ Express					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	no results			no results	
3BKC2T	PowerPlex® Fusion 6C					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23	13,13	5,7	20,27.2	7,9.3	8,12
	15,17					
428KAA	GlobalFiler™ (STRmix)					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
4GWW66	PowerPlex® Fusion 5C					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23	13,13	5,7		7,9.3	8,12
	15,17					
4MZZQW	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	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

4N6B6Z	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	X,X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
4XT2RR	GlobalFiler™ Express					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	X,X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	No Results			No Results	
64DPZ3	PowerPlex® Fusion 5C					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
67PJJV	Identifiler® Plus					
		17,20		16,17	11,11	
1	12,12	13,14			11,12	11,13
	12,12	14,14.2	31.2,32.2		X,X	11,12
	19,23				7,9.3	8,12
	15,17					
6A322Q	PowerPlex® Fusion 5C					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17	NR				
6ARF9P	Investigator® 24plex					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	X,X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	N/A				
6BVUWA	GlobalFiler™ Express					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	X,X	11,12
	19,23			20,27.2	7,9.3	8,12
	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

6JWKWZ	PowerPlex® Fusion (STRmix)					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
6LDEG7	GlobalFiler™ (STRmix)					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	--			--	
6LTX24	GlobalFiler™ (STRmix)					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
6NDTKY	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
74QD2U	PowerPlex® Fusion 6C					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7	20,27.2	7,9.3	8,12
	15,17					
7AGNBT	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	NM			NM	
7GCQD4						
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	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

7HQCNQ	GlobalFiler™					
		15,17.3	17,20	10,14	16,17	11
1		12	13,14	13	20,24	11,12
		12	14,14.2	31.2,32.2	11,15	X,X
		19,23			20,27.2	7,9.3
		15,17	NM			NM
7JC79M	PowerPlex® Fusion					
		15,17.3	17,20	10,14	16,17	11
1		12	13,14	13	20,24	11,12
		12	14,14.2	31.2,32.2	11,15	X
		19,23	13	5,7		7,9.3
		15,17				8,12
7RYN4A	GlobalFiler™ Express					
		15,17.3	17,20	10,14	16,17	11,11
1		12,12	13,14	13,13	20,24	11,12
		12,12	14,14.2	31.2,32.2	11,15	X,X
		19,23			20,27.2	7,9.3
		15,17	NR			NR
7T7736	GlobalFiler™ (STRmix)					
		15,17.3	17,20	10,14	16,17	11,11
1		12,12	13,14	13,13	20,24	11,12
		12,12	14,14.2	31.2,32.2	11,15	X,X
		19,23	--	--	20,27.2	7,9.3
		15,17	--	--	--	--
8EE2RN	GlobalFiler™ Express					
		15,17.3	17,20	10,14	16,17	11
1		12	13,14	13	20,24	11,12
		12	14,14.2	31.2,32.2	11,15	X
		19,23			20,27.2	7,9.3
		15,17				8,12
8KU88U	GlobalFiler™ IQC					
		15,17.3	17,20	10,14	16,17	11,11
1		12,12	13,14	13,13	20,24	11,12
		12,12	14,14.2	31.2,32.2	11,15	X,X
		19,23			20,27.2	7,9.3
		15,17				8,12
8RZL7P	Investigator® 24plex					
		15,17.3	17,20	10,14	16,17	11,11
1		12,12	13,14	13,13	20,24	11,12
		12,12	14,14.2	31.2,32.2	11,15	X,X
		19,23			20,27.2	7,9.3
		15,17	N/A			8,12

TABLE 1

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

8YZ2VX	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
984XYU	PowerPlex® Fusion 6C					
	15,17.3	17,20	10,14	16,17	11,11	-
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23	13,13	5,7	20,27.2	7,9.3	8,12
	15,17	-	-	-	-	
9J2BEQ	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
9K4WLQ	PowerPlex® Fusion 5C					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17	NR				
9TUJZH	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
9U8W3T	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
9WLF7M	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	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

9XE927	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
15,17						
9XLUAF	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	
	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
15,17	NR			NR		
A349UR	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
15,17	NM			NM		
A682M6	GlobalFiler™ Express					
	15,17.3	17,20	10,14	16,17	11,11	
	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
15,17	NR			NR		
AT6LLG	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
15,17						
AWWHRL	PowerPlex® Fusion 5C					
	15,17.3	17,20	10,14	16,17	11	
	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
15,17						
B98CH6	GlobalFiler™ Express					
	15,17.3	17,20	10,14	16,17	11,11	
	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
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 1 - STR Results

BBABTX	PowerPlex® Fusion 5C					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
BCNW3Y	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	--			--	
BT2QAN	Identifiler® Plus					
		17,20		16,17	11,11	
1	12,12	13,14			11,12	11,13
	12,12	14,14.2	31.2,32.2		XX	11,12
	19,23				7,9.3	8,12
	15,17					
BV84XG	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
C42FQP	PowerPlex® Fusion 6C					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23	13,13	5,7	20,27.2	7,9.3	8,12
	15,17					
C4HR9U	GlobalFiler™ (STRmix)					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
C89NEZ	GlobalFiler™ (STRmix)					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	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

C8MBQM	PowerPlex® Fusion 5C					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17	NR				
C8ZRMF	GlobalFiler™ PCR Amplification Kit					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
CABMGU	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
CK3H9U	PowerPlex® Fusion 5C					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23	13,13	5,7		7,9.3	8,12
	15,17					
CNKHLN	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	NA			NA	
CUF89M	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
D36HVN	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	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

D87DXM	PowerPlex® Fusion 6C					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X,X	11,12
	19,23	13	5,7	20,27.2	7,9.3	8,12
	15,17					
DGLAKU	PowerPlex® Fusion 5C					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
DKRT2M	PowerPlex® Fusion 6C (STRmix v2.6.3)					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7	20,27.2	7,9.3	8,12
	15,17					
DNQ4XM	PowerPlex® Fusion 6C					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7	20,27.2	7,9.3	8,12
	15,17					
DPFH6L	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	na
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	X,X	11,12
	19,23	na	na	20,27.2	7,9.3	8,12
	15,17	NA	na	na	NA	
DQ8EUE	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
E3Q6AN	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	X,X	11,12
	19,23			20,27.2	7,9.3	8,12
	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

EAL9CY	GlobalFiler™ Express					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	NR			NR	
EGEMFL	PowerPlex® 21					
	15,17.3	17,20		16,17	11	18,19
1	12	13,14		20,24	11,12	11,13
	12	14,14.2	31.2,32.2		X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
EJBWAM	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	NM			NM	
EKYBGL	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
EMB6DX	GlobalFiler™ (STRmix)					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
EZT32M	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
F6G2TM	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	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

FGGP4G	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
FLWXRF	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17	NR				
FWQGPA	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
FWT2LQ	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
GAVYZA	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
GJHZGJ	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	N/A
	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23	N/A	N/A	20,27.2	7,9.3	8,12
	15,17	N/A	N/A	N/A	N/A	
GQUCAB	PowerPlex® Fusion 5C					
	15,17.3	17,20	10,14	16,17	11	
	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	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

GU7L7E	PowerPlex® Fusion 6C					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	X,X	11,12
	19,23	13,13	5,7	20,27.2	7,9.3	8,12
	15,17					
GVBXB	PowerPlex® Fusion 5C					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
H7M7JG	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	N/A
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	X,X	11,12
	19,23	N/A	N/A	20,27.2	7,9.3	8,12
	15,17	N/A	N/A	N/A	N/A	
HCED3P	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X,X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
HP3FKG	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	X,X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
HPECPL	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
HUA7MM	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	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

HX9KBD	GlobalFiler™ Express						
		15,17.3	17,20	10,14	16,17	11	
	1	12	13,14	13	20,24	11,12	11,13
		12	14,14.2	31.2,32.2	11,15	X	11,12
		19,23			20,27.2	7,9.3	8,12
	15,17						
HYPEBM	PowerPlex® Fusion 5C						
		15,17.3	17,20	10,14	16,17	11	
	1	12	13,14	13	20,24	11,12	11,13
		12	14,14.2	31.2,32.2	11,15	X	11,12
		19,23	13	5,7		7,9.3	8,12
	15,17						
J9DLQU	GlobalFiler™ Express						
		15,17.3	17,20	10,14	16,17	11,11	
	1	12,12	13,14	13,13	20,24	11,12	11,13
		12,12	14,14.2	31.2,32.2	11,15	XX	11,12
		19,23			20,27.2	7,9.3	8,12
	15,17	NR			NR		
JEHHCE	PowerPlex® Fusion						
		15,17.3	17,20	10,14	16,17	11	
	1	12	13,14	13	20,24	11,12	11,13
		12	14,14.2	31.2,32.2	11,15	X	11,12
		19,23	13	5,7		7,9.3	8,12
	15,17	NR					
JN6PR8	PowerPlex® Fusion						
		15,17.3	17,20	10,14	16,17	11	
	1	12	13,14	13	20,24	11,12	11,13
		12	14,14.2	31.2,32.2	11,15	X	11,12
		19,23	13	5,7		7,9.3	8,12
	15,17						
JR8H3G	GlobalFiler™						
		15,17.3	17,20	10,14	16,17	11	
	1	12	13,14	13	20,24	11,12	11,13
		12	14,14.2	31.2,32.2	11,15	XX	11,12
		19,23			20,27.2	7,9.3	8,12
	15,17	NM			NM		
JRTVQU	GlobalFiler™ Express						
		15,17.3	17,20	10,14	16,17	11,11	
	1	12,12	13,14	13,13	20,24	11,12	11,13
		12,12	14,14.2	31.2,32.2	11,15	XX	11,12
		19,23			20,27.2	7,9.3	8,12
	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

K6XE3U	GlobalFiler™					
		15,17.3	17,20	10,14	16,17	11
	1	12	13,14	13	20,24	11,12
		12	14,14.2	31.2,32.2	11,15	X
		19,23			20,27.2	7,9.3
	15,17				8,12	
K78GQE	PowerPlex® Fusion					
		15,17.3	17,20	10,14	16,17	11
	1	12	13,14	13	20,24	11,12
		12	14,14.2	31.2,32.2	11,15	X
		19,23	13	5,7		7,9.3
	15,17	NR			8,12	
KGMB4T	GlobalFiler™ (STRmix)					
		15,17.3	17,20	10,14	16,17	11
	1	12	13,14	13	20,24	11,12
		12	14,14.2	31.2,32.2	11,15	X
		19,23			20,27.2	7,9.3
	15,17				8,12	
KJ6XWF	PowerPlex® Fusion 5C					
		15,17.3	17,20	10,14	16,17	11
	1	12	13,14	13	20,24	11,12
		12	14,14.2	31.2,32.2	11,15	X
		19,23	13	5,7		7,9.3
	15,17				8,12	
KURTER	GlobalFiler™ Express					
		15,17.3	17,20	10,14	16,17	11,11
	1	12,12	13,14	13,13	20,24	11,12
		12,12	14,14.2	31.2,32.2	11,15	XX
		19,23			20,27.2	7,9.3
	15,17	NR			NR	
LFX2QH	PowerPlex® Fusion					
		15,17.3	17,20	10,14	16,17	11
	1	12	13,14	13	20,24	11,12
		12	14,14.2	31.2,32.2	11,15	X
		19,23	13	5,7		7,9.3
	15,17				8,12	
LRBYVL	GlobalFiler™					
		15,17.3	17,20	10,14	16,17	11
	1	12	13,14	13	20,24	11,12
		12	14,14.2	31.2,32.2	11,15	X
		19,23			20,27.2	7,9.3
	15,17				8,12	

TABLE 1

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

M4PA7H	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	0			0	
M9HH7H	PowerPlex® Fusion 5C					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
MJLNFB	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	NM			NM	
MQXPHE	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
MTT6BM	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
MUE8KH	PowerPlex® 21 (STRmix)					
	15,17.3	17,20		16,17	11,11	18,19
1	12,12	13,14		20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2		XX	11,12
	19,23	13,13	5,7		7,9.3	8,12
	15,17					
MX73HA	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	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

NKL2GH	PowerPlex® Fusion 5C					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	X,X	11,12
	19,23	13,13	5,7		7,9.3	8,12
	15,17					
NZQGKP	GlobalFiler™ Express					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	X,X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	NR			NR	
P7QTH8	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
PGLCDG	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
PHKA6M	GlobalFiler™ (STRmix)					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
PTFT3G	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	X,X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
PX73CF	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	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

Q2UN39	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17	NR				
QR2LGZ	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
QZR4V9	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
R6G688		17,20		16,17	11,11	
1	12,12	13,14			11,12	11,13
	12,12	14,14.2	31.2,32.2		XX	11,12
	19,23				7,9.3	8,12
	15,17					
R8G2EF	GlobalFiler™ (STRmix)					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
R99X4A	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	NM			NM	
RK3B2L	GlobalFiler™ Express					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	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 1 - STR Results

RQLLXB	GlobalFiler™						
		15,17.3	17,20	10,14	16,17	11,11	NA
	1	12,12	13,14	13,13	20,24	11,12	11,13
		12,12	14,14.2	31.2,32.2	11,15	X,X	11,12
		19,23	NA	NA	20,27.2	7,9.3	8,12
	15,17		NA	NA	NA		
RRR97A	PowerPlex® Fusion 5C						
		15,17.3	17,20	10,14	16,17	11	
	1	12	13,14	13	20,24	11,12	11,13
		12	14,14.2	31.2,32.2	11,15	X	11,12
		19,23	13	5,7		7,9.3	8,12
	15,17						
RVCW8A	GlobalFiler™						
		15,17.3	17,20	10,14	16,17	11,11	
	1	12,12	13,14	13,13	20,24	11,12	11,13
		12,12	14,14.2	31.2,32.2	11,15	X,X	11,12
		19,23			20,27.2	7,9.3	8,12
	15,17						
RVU37Y	PowerPlex® Fusion						
		15,17.3	17,20	10,14	16,17	11	
	1	12	13,14	13	20,24	11,12	11,13
		12	14,14.2	31.2,32.2	11,15	X	11,12
		19,23	13	5,7		7,9.3	8,12
	15,17						
T9GPXC	GlobalFiler™ (STRmix)						
		15,17.3	17,20	10,14	16,17	11	
	1	12	13,14	13	20,24	11,12	11,13
		12	14,14.2	31.2,32.2	11,15	X	11,12
		19,23			20,27.2	7,9.3	8,12
	15,17						
TFM3DL	GlobalFiler™						
		15,17.3	17,20	10,14	16,17	11	
	1	12	13,14	13	20,24	11,12	11,13
		12	14,14.2	31.2,32.2	11,15	X	11,12
		19,23			20,27.2	7,9.3	8,12
	15,17						
TG2PN9	PowerPlex® Fusion 5C, Verifiler+						
		15,17.3	17,20	10,14	16,17	11	18,19
	1	12	13,14	13	20,24	11,12	11,13
		12	14,14.2	31.2,32.2	11,15	X	11,12
		19,23	13	5,7		7,9.3	8,12
	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

TN9ATE	PowerPlex® Fusion 5C					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	X,X	11,12
	19,23	13,13	5,7		7,9.3	8,12
	15,17					
TQ2FWC	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
TWHX7D	PowerPlex® Fusion 5C					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	X,X	11,12
	19,23	13,13	5,7		7,9.3	8,12
	15,17	-	-	-	-	
TX62K6	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
U33KC3	Investigator® 24plex					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	X,X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	NA				
UAHLG7	PowerPlex® Fusion 6C (STRmix)					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7	20,27.2	7,9.3	8,12
	15,17					
UBJWUA	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	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

UEATZE	GlobalFiler™ (STRmix v2.8)					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
UHMTW7	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	----
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23	----	----	20,27.2	7,9.3	8,12
	15,17	----	----	----	----	
UQYV2V	GlobalFiler™ (STRmix)					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
VM99JT	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	NR			NR	
VQXEJF	GlobalFiler™ (STRmix)					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
VK8D4	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
VZVH4C	GlobalFiler™ (STRmix)					
	15,17.3	17,20	10,14	16,17	11	
1	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	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

W3DYY3	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	NA
	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23	NA	NA	20,27.2	7,9.3	8,12
	15,17	NA	NA	NA	NA	
WAHXAR	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11	
	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
WEVFRA	PowerPlex® Fusion 5c					
	15,17.3	17,20	10,14	16,17	11	
	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
WGQWKG	GlobalFiler™ Express					
	15,17.3	17,20	10,14	16,17	11,11	
	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	NR		NR		
WHTZVT	GlobalFiler™ (STRmix)					
	15,17.3	17,20	10,14	16,17	11,11	
	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
WLG7VF	GlobalFiler™ (STRmix)					
	15,17.3	17,20	10,14	16,17	11	
	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
WQV433	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	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

X8QYVU	PowerPlex® Fusion 5C					
	15,17.3	17,20	10,14	16,17	11	
	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
XLQXJQ	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	
	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	NR		NR		
XX2BY7	PowerPlex® 5C					
	15,17.3	17,20	10,14	16,17	11	
	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17					
XYGRBA	GlobalFiler™ (STRmix)					
	15,17.3	17,20	10,14	16,17	11	
	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17					
Y27F9W	PowerPlex® Fusion 5C					
	15,17.3	17,20	10,14	16,17	11	
	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	15,17	NR				
Y4NKLA	PowerPlex® Fusion 5C					
	15,17.3	17,20	10,14	16,17	11,11	
	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23	13,13	5,7		7,9.3	8,12
	15,17					
Y6V3J6	PowerPlex® Fusion					
	15,17.3	17,20	10,14	16,17	11	
	12	13,14	13	20,24	11,12	11,13
	12	14,14.2	31.2,32.2	11,15	X	11,12
	19,23	13	5,7		7,9.3	8,12
	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

YJ77PY	GlobalFiler™					
		15,17.3	17,20	10,14	16,17	11
	1	12	13,14	13	20,24	11,12
		12	14,14.2	31.2,32.2	11,15	X,X
		19,23			20,27.2	7,9.3
	15,17	NM			NM	
YQ7PPA	GlobalFiler™ (STRmix™)					
		15,17.3	17,20	10,14	16,17	11
	1	12	13,14	13	20,24	11,12
		12	14,14.2	31.2,32.2	11,15	X
		19,23			20,27.2	7,9.3
	15,17					
YXGUH4	PowerPlex® Fusion					
		15,17.3	17,20	10,14	16,17	11
	1	12	13,14	13	20,24	11,12
		12	14,14.2	31.2,32.2	11,15	X
		19,23	13	5,7		7,9.3
	15,17					
ZE2VX7	GlobalFiler™					
		15,17.3	17,20	10,14	16,17	11,11
	1	12,12	13,14	13,13	20,24	11,12
		12,12	14,14.2	31.2,32.2	11,15	X,X
		19,23			20,27.2	7,9.3
	15,17					
ZEAYJV	GlobalFiler™					
		15,17.3	17,20	10,14	16,17	11
	1	12	13,14	13	20,24	11,12
		12	14,14.2	31.2,32.2	11,15	X
		19,23			20,27.2	7,9.3
	15,17					
ZG3DKZ	NGM SElect					
		15,17.3	17,20	10,14	16,17	
	1		13,14	13,13	20,24	11,13
		12,12	14,14.2	31.2,32.2	11,15	X,X
		19,23			20,27.2	7,9.3
	15,17					
ZGQC6T	PowerPlex® Fusion					
		15,17.3	17,20	10,14	16,17	11
	1	12	13,14	13	20,24	11,12
		12	14,14.2	31.2,32.2	11,15	X
		19,23	13	5,7		7,9.3
	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

ZKU2ND	GlobalFiler™ Express					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	NR			NR	
ZMW6YN	GlobalFiler™					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	15,17	NR			NR	
ZTQWNW	PowerPlex® Fusion 6C					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23	13,13	5,7	20,27.2	7,9.3	8,12
	15,17					
ZWP9KW	PowerPlex® Fusion 6C					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23	13,13	5,7	20,27.2	7,9.3	8,12
	15,17					
ZYUZCA	GlobalFiler™ (STRmix)					
	15,17.3	17,20	10,14	16,17	11,11	
1	12,12	13,14	13,13	20,24	11,12	11,13
	12,12	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,12
	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

29ACNM	GlobalFiler™					
		12,15	16,18	11,14	15,15	11,13
2		8,10	11,15	14,14	19,23	10,12 9,11
		12,16	13,15	29,31.2	15,15	X,Y 10,11
		20,23			28.2,29.2	7,8 8,11
		16,17	10			2
2A46J7	GlobalFiler™					
		12,15	16,18	11,14	15	11,13
2		8,10	11,15	14	19,23	10,12 9,11
		12,16	13,15	29,31.2	15	X,Y 10,11
		20,23			28.2,29.2	7,8 8,11
		16,17	10			2
2EETJ3	PowerPlex® Fusion 5C					
		12,15	16,18	11,14	15	11,13
2		8,10	11,15	14	19,23	10,12 9,11
		12,16	13,15	29,31.2	15	X,Y 10,11
		20,23	13	7,12		7,8 8,11
		16,17	10			
2GZXRZ	PowerPlex® Fusion					
		12,15	16,18	11,14	15	11,13
2		8,10	11,15	14	19,23	10,12 9,11
		12,16	13,15	29,31.2	15	X,Y 10,11
		20,23	13	7,12		7,8 8,11
		16,17	10			
2JTTFU	GlobalFiler™ Express					
		12,15	16,18	11,14	15	11,13
2		8,10	11,15	14	19,23	10,12 9,11
		12,16	13,15	29,31.2	15	X,Y 10,11
		20,23			28.2,29.2	7,8 8,11
		16,17	10			2
2LN8KX	PowerPlex® Fusion					
		12,15	16,18	11,14	15	11,13
2		8,10	11,15	14	19,23	10,12 9,11
		12,16	13,15	29,31.2	15	X,Y 10,11
		20,23	13	7,12		7,8 8,11
		16,17	10			
2QBYDZ	PowerPlex® 5C					
		12,15	16,18	11,14	15	11,13
2		8,10	11,15	14	19,23	10,12 9,11
		12,16	13,15	29,31.2	15	X,Y 10,11
		20,23	13	7,12		7,8 8,11
		16,17	10			

TABLE 1

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

Item 2 - STR Results

2R3V2U	GlobalFiler™ Express					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
33XNMQ	GlobalFiler™ Express					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
3BKC2T	PowerPlex® Fusion 6C					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	13,13	7,12	28.2,29.2	7,8	8,11
	16,17	10	17	15		
428KAA	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
4GWW66	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	13,13	7,12		7,8	8,11
	16,17	10				
4MZZQW	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
4N6B6Z	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	

TABLE 1

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

Item 2 - STR Results

4XT2RR	GlobalFiler™ Express					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
64DPZ3	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
67PJJV	Identifiler® Plus					
		16,18		15,15	11,13	
2	8,10	11,15			10,12	9,11
	12,16	13,15	29,31.2		X,Y	10,11
	20,23				7,8	8,11
	16,17					
6A322Q	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
6ARF9P	Investigator® 24plex					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10				
6BVUWA	GlobalFiler™ Express					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
6JWKWZ	PowerPlex® Fusion (STRmix)					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				

TABLE 1

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

Item 2 - STR Results

6LDEG7	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
6LTX24	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
6NDTKY	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
74QD2U	PowerPlex® Fusion 6C					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12	28.2,29.2	7,8	8,11
	16,17	10	17	15		
7AGNBT	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
7GCQD4	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
7HQCNDQ	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	

TABLE 1

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

Item 2 - STR Results

7JC79M	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
7RYN4A	GlobalFiler™ Express					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
7T7736	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	--	--	28.2,29.2	7,8	8,11
	16,17	10	--	--	2	
8EE2RN	GlobalFiler™ Express					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
8KU88U	GlobalFiler™ IQC					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
8RZL7P	Investigator® 24plex					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10				
8YZ2VX	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				

TABLE 1

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

Item 2 - STR Results

984XYU	PowerPlex® Fusion 6C					
	12,15	16,18	11,14	15,15	11,13	-
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	13,13	7,12	28.2,29.2	7,8	8,11
	16,17	10	17	15	-	
9J2BEQ	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
9K4WLQ	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
9TUJZH	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
9U8W3T	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
9WLF7M	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
9XE927	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	

TABLE 1

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

Item 2 - STR Results

9XLUAF	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
A349UR	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
A682M6	GlobalFiler™ Express					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
AT6LLG	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
AWWHRL	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
B98CH6	GlobalFiler™ Express					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
BBABTX	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				

TABLE 1

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

Item 2 - STR Results

BCNW3Y	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
BT2QAN	Identifiler® Plus					
		16,18		15,15	11,13	
2	8,10	11,15			10,12	9,11
	12,16	13,15	29,31.2		X,Y	10,11
	20,23				7,8	8,11
	16,17					
BV84XG	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
C42FQP	PowerPlex® Fusion 6C					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	13,13	7,12	28.2,29.2	7,8	8,11
	16,17	10	17	15		
C4HR9U	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
C89NEZ	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
C8MBQM	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				

TABLE 1

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

Item 2 - STR Results

C8ZRMP	GlobalFiler™ PCR Amplification Kit					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
CABMGU	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
CK3H9U	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	13,13	7,12		7,8	8,11
	16,17	10				
CNKHLN	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
CUF89M	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
D36HVN	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
D87DXM	PowerPlex® Fusion 6C					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12	28.2,29.2	7,8	8,11
	16,17	10	17	15		

TABLE 1

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

Item 2 - STR Results

DGLAKU	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
DKRT2M	PowerPlex® Fusion 6C (STRmix v2.6.3)					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12	28.2,29.2	7,8	8,11
	16,17	10	17	15		
DNQ4XM	PowerPlex® Fusion 6C					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12	28.2,29.2	7,8	8,11
	16,17	10	17	15		
DPFH6L	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	na
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	na	na	28.2,29.2	7,8	8,11
	16,17	10	na	na	2	
DQ8EUE	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
E3Q6AN	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
EAL9CY	GlobalFiler™ Express					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	

TABLE 1

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

Item 2 - STR Results

EGEMFL	PowerPlex® 21					
	12,15	16,18		15	11,13	11,12
2	8,10	11,15		19,23	10,12	9,11
	12,16	13,15	29,31.2		X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17					
EJBWAM	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
EKYBGL	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
EMB6DX	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
EZT32M	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
F6G2TM	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
FGGP4G	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	

TABLE 1

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

Item 2 - STR Results

FLWXRF	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
FWQGPA	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
FWT2LQ	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
GAVYZA	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
GJHZGJ	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	N/A
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	N/A	N/A	28.2,29.2	7,8	8,11
	16,17	10	N/A	N/A	2	
GQUCAB	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
GU7L7E	PowerPlex® Fusion 6C					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	13,13	7,12	28.2,29.2	7,8	8,11
	16,17	10	17	15		

TABLE 1

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

Item 2 - STR Results

GVBJXB	PowerPlex® Fusion 5C						
		12,15	16,18	11,14	15	11,13	
	2	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23	13	7,12		7,8	8,11
		16,17	10				
H7M7JG	GlobalFiler™						
		12,15	16,18	11,14	15,15	11,13	N/A
	2	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23	N/A	N/A	28.2,29.2	7,8	8,11
		16,17	10	N/A	N/A	2	
HCED3P	GlobalFiler™						
		12,15	16,18	11,14	15	11,13	
	2	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
HP3FKG	GlobalFiler™						
		12,15	16,18	11,14	15,15	11,13	
	2	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
HPECPL	PowerPlex® Fusion						
		12,15	16,18	11,14	15	11,13	
	2	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23	13	7,12		7,8	8,11
		16,17	10				
HUA7MM	PowerPlex® Fusion						
		12,15	16,18	11,14	15	11,13	
	2	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23	13	7,12		7,8	8,11
		16,17	10				
HX9KBD	GlobalFiler™ Express						
		12,15	16,18	11,14	15	11,13	
	2	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	

TABLE 1

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

Item 2 - STR Results

HYPEBM	PowerPlex® Fusion 5C						
		12,15	16,18	11,14	15	11,13	
	2	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23	13	7,12		7,8	8,11
		16,17	10				
J9DLQU	GlobalFiler™ Express						
		12,15	16,18	11,14	15,15	11,13	
	2	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
JEHHCE	PowerPlex® Fusion						
		12,15	16,18	11,14	15	11,13	
	2	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23	13	7,12		7,8	8,11
		16,17	10				
JN6PR8	PowerPlex® Fusion						
		12,15	16,18	11,14	15	11,13	
	2	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23	13	7,12		7,8	8,11
		16,17	10				
JR8H3G	GlobalFiler™						
		12,15	16,18	11,14	15	11,13	
	2	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
JRTVQU	GlobalFiler™ Express						
		12,15	16,18	11,14	15,15	11,13	
	2	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
K6XE3U	GlobalFiler™						
		12,15	16,18	11,14	15	11,13	
	2	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	

TABLE 1

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

Item 2 - STR Results

K78GQE	PowerPlex® Fusion					
		12,15	16,18	11,14	15	11,13
	2	8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23	13	7,12		7,8
	16,17	10				
KGMB4T	GlobalFiler™ (STRmix)					
		12,15	16,18	11,14	15	11,13
	2	8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23			28.2,29.2	7,8
	16,17	10			2	
KJ6XWF	PowerPlex® Fusion 5C					
		12,15	16,18	11,14	15	11,13
	2	8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23	13	7,12		7,8
	16,17	10				
KURTER	GlobalFiler™ Express					
		12,15	16,18	11,14	15,15	11,13
	2	8,10	11,15	14,14	19,23	10,12
		12,16	13,15	29,31.2	15,15	X,Y
		20,23			28.2,29.2	7,8
	16,17	10			2	
LFX2QH	PowerPlex® Fusion					
		12,15	16,18	11,14	15	11,13
	2	8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23	13	7,12		7,8
	16,17	10				
LRBYVL	GlobalFiler™					
		12,15	16,18	11,14	15	11,13
	2	8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23			28.2,29.2	7,8
	16,17	10			2	
M4PA7H	GlobalFiler™					
		12,15	16,18	11,14	15,15	11,13
	2	8,10	11,15	14,14	19,23	10,12
		12,16	13,15	29,31.2	15,15	X,Y
		20,23			28.2,29.2	7,8
	16,17	10			2	

TABLE 1

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

Item 2 - STR Results

M9HH7H	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
MJLNFB	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
MQXPHE	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
MTT6BM	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
MUE8KH	PowerPlex® 21 (STRmix)					
	12,15	16,18		15,15	11,13	11,12
2	8,10	11,15		19,23	10,12	9,11
	12,16	13,15	29,31.2		X,Y	10,11
	20,23	13,13	7,12		7,8	8,11
	16,17					
MX73HA	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
NKL2GH	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	13,13	7,12		7,8	8,11
	16,17	10				

TABLE 1

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

Item 2 - STR Results

NZQGKP	GlobalFiler™ Express						
		12,15	16,18	11,14	15,15	11,13	
	2	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
	16,17	10			2		
P7QTH8	GlobalFiler™						
		12,15	16,18	11,14	15	11,13	
	2	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
	16,17	10			2		
PGLCDG	PowerPlex® Fusion						
		12,15	16,18	11,14	15	11,13	
	2	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23	13	7,12		7,8	8,11
	16,17	10					
PHKA6M	GlobalFiler™ (STRmix)						
		12,15	16,18	11,14	15	11,13	
	2	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
	16,17	10			2		
PTFT3G	GlobalFiler™						
		12,15	16,18	11,14	15,15	11,13	
	2	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
	16,17	10			2		
PX73CF	PowerPlex® Fusion						
		12,15	16,18	11,14	15	11,13	
	2	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23	13	7,12		7,8	8,11
	16,17	10					
Q2UN39	PowerPlex® Fusion						
		12,15	16,18	11,14	15	11,13	
	2	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23	13	7,12		7,8	8,11
	16,17	10					

TABLE 1

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

Item 2 - STR Results

QR2LGZ	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
QZR4V9	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
R6G688		16,18		15,15	11,13	
2	8,10	11,15			10,12	9,11
	12,16	13,15	29,31.2		X,Y	10,11
	20,23				7,8	8,11
	16,17					
R8G2EF	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
R99X4A	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
RK3B2L	GlobalFiler™ Express					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
RQLLXB	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	NA
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	NA	NA	28.2,29.2	7,8	8,11
	16,17	10	NA	NA	2	

TABLE 1

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

Item 2 - STR Results

RRR97A	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
RVCW8A	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
RVU37Y	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
T9GPXC	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
TFM3DL	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
TG2PN9	PowerPlex® Fusion 5C, Verifiler+					
	12,15	16,18	11,14	15	11,13	11,12
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10			2	
TN9ATE	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	13,13	7,12		7,8	8,11
	16,17	10				

TABLE 1

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

Item 2 - STR Results

TQ2FWC	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
TWHX7D	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15,15	11,13	-
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	13,13	7,12	-	7,8	8,11
	16,17	10	-	-	-	
TX62K6	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
U33KC3	Investigator® 24plex					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10				
UAHLG7	PowerPlex® Fusion 6C (STRmix)					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12	28.2,29.2	7,8	8,11
	16,17	10	17	15		
UBJWUA	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
UEATZE	GlobalFiler™ (STRmix v2.8)					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	

TABLE 1

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

Item 2 - STR Results

UHMTW7	GlobalFiler™						
		12,15	16,18	11,14	15,15	11,13	----
	2	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23	----	----	28.2,29.2	7,8	8,11
		16,17	10	----	----	2	
UQYV2V	GlobalFiler™ (STRmix)						
		12,15	16,18	11,14	15	11,13	
	2	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
VM99JT	GlobalFiler™						
		12,15	16,18	11,14	15,15	11,13	
	2	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
VQXEJF	GlobalFiler™ (STRmix)						
		12,15	16,18	11,14	15,15	11,13	
	2	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
WVK8D4	GlobalFiler™						
		12,15	16,18	11,14	15,15	11,13	
	2	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
VZVH4C	GlobalFiler™						
		12,15	16,18	11,14	15	11,13	
	2	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
W3DYY3	GlobalFiler™						
		12,15	16,18	11,14	15,15	11,13	NA
	2	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23	NA	NA	28.2,29.2	7,8	8,11
		16,17	10	NA	NA	2	

TABLE 1

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

Item 2 - STR Results

WAHXAR	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
WEVFRA	PowerPlex® Fusion 5c					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
WGQWKG	GlobalFiler™ Express					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
WHTZVT	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
WLG7VF	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
WQV433	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
X8QYVU	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				

TABLE 1

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

Item 2 - STR Results

XLQXJQ	GlobalFiler™					
		12,15	16,18	11,14	15,15	11,13
	2	8,10	11,15	14,14	19,23	10,12
		12,16	13,15	29,31.2	15,15	X,Y
		20,23			28.2,29.2	7,8
	16,17	10			2	
XX2BY7	PowerPlex® 5C					
		12,15	16,18	11,14	15	11,13
	2	8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23	13	7,12		7,8
	16,17	10				
XYGRBA	GlobalFiler™ (STRmix)					
		12,15	16,18	11,14	15	11,13
	2	8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23			28.2,29.2	7,8
	16,17	10			2	
Y27F9W	PowerPlex® Fusion 5C					
		12,15	16,18	11,14	15	11,13
	2	8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23	13	7,12		7,8
	16,17	10				
Y4NKLA	PowerPlex® Fusion 5C					
		12,15	16,18	11,14	15,15	11,13
	2	8,10	11,15	14,14	19,23	10,12
		12,16	13,15	29,31.2	15,15	X,Y
		20,23	13,13	7,12		7,8
	16,17	10				
Y6V3J6	PowerPlex® Fusion					
		12,15	16,18	11,14	15	11,13
	2	8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23	13	7,12		7,8
	16,17	10				
YJ77PY	GlobalFiler™					
		12,15	16,18	11,14	15	11,13
	2	8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23			28.2,29.2	7,8
	16,17	10			2	

TABLE 1

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

Item 2 - STR Results

YQ7PPA	GlobalFiler™ (STRmix™)					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
YXGUH4	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
ZE2VX7	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
ZEAYJV	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
ZG3DKZ	NGM SElect					
	12,15	16,18	11,14	15,15		
2		11,15	14,14	19,23		9,11
	12,16	13,15	29,31.2	15,15	X,Y	
	20,23			28.2,29.2	7,8	
	16,17					
ZGQC6T	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
2	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
ZKU2ND	GlobalFiler™ Express					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	

TABLE 1

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

Item 2 - STR Results

ZMW6YN	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
ZTQWNW	PowerPlex® Fusion 6C					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	13,13	7,12	28.2,29.2	7,8	8,11
	16,17	10	17	15		
ZWP9KW	PowerPlex® Fusion 6C					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	13,13	7,12	28.2,29.2	7,8	8,11
	16,17	10	17	15		
ZYUZCA	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15,15	11,13	
2	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	

TABLE 1

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

Item 3 - STR Results

3BKC2T	PowerPlex® Fusion 6C (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12	20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10	17	15		
4N6B6Z	GlobalFiler™					
	12,15	16,17,18,20	10,11,14	15,15	11,13	
3	8,10,12	11,13,14,15	13,14	19,23,24	10,11,12	9,11,13
	12,16	13,15	29,31.2	11,15	X,Y	10,11
	20,23			20,27.2,28.2,29.2	7,8,9.3	8,11
	15,16,17	10			2	
C8ZRMP	PowerPlex® Fusion 6C (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12	20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10	17	15		
D87DXM	PowerPlex® Fusion 6C (CaseSolver, LRMixStudio, LabRetriever, DNAView, EFM)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,12,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12	20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10	17	15		
E3Q6AN	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
EGEMFL	PowerPlex® 21					
	12,15,17.3	16,17,18,20		15,16,17	11,13	11,12,18,19
3	8,10,12	11,13,14,15		19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2		X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17					
GU7L7E	PowerPlex® Fusion 6C (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12	20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10	17	15		

TABLE 1

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

Item 3 - STR Results

TG2PN9	PowerPlex® Fusion 5C, Verifiler+					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	11,12,18,19
3	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10			2	
UHMTW7	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	-----
3	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	-----	-----	20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10	-----	-----	2	
ZTQWNW	PowerPlex® Fusion 6C (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12	20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10	17	15		
ZWP9KW	PowerPlex® Fusion 6C (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12	20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10	17	15		

TABLE 1

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

Item 3e - STR Results

29ACNM	GlobalFiler™					
	[12],15,17.3	[16],17,[18],20	10,[11],14	[15],16,17	11,[13]	
	3e [8],[10],12	[11],13,14,[15]	13,[14]	[19],20,[23],24	[10],11,12	[9],11,13
	12,[16]	[13],14,14.2,[15]	[29],31.2,32.2	11,15	X,[Y]	[10],11,12
	19,[20],23			20,27.2,[28.2],[29.2]	7,[8],9.3	8,[11],12
	15,[16],17	10		2		
2A46J7	GlobalFiler™					
	[12],15,17.3	[16],17,[18],20	10,[11],14	[15],16,17	11,[13]	
	3e [8],[10],12	[11],13,14,[15]	13,[14]	[19],20,[23],24	[10],11,12	[9],11,13
	12,[16]	[13],14,14.2,[15]	[29],31.2,32.2	11,15	X,[Y]	[10],11,12
	19,[20],23			20,27.2,[28.2],[29.2]	7,[8],9.3	8,[11],12
	15,[16],17	10		2		
2EETJ3	PowerPlex® Fusion 5C					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,17	10				
2GZXRZ	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
2JTTFU	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10		2		
2LN8KX	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
2QBVDZ	PowerPlex® 5C					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				

TABLE 1

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

Item 3e - STR Results

2R3V2U	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10		2		
33XNMQ	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10		2		
428KAA	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10		2		
4GWW66	PowerPlex® Fusion 5C					
	12,15,17.3	16,17,18,20	10,14	15,16,17	11,13	
	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13,13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
4MZZQW	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10		2		
4XT2RR	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10		2		
64DPZ3	PowerPlex® Fusion 5C					
	15,17.3	[16],17,[18],20	10,[11],14	[15],16,17	11,[13]	
	[8],12	[11],13,14,[15]	13	[19],20,24	11,12	[9],11,13
	12	14,14.2,[15]	31.2,32.2	11,15	X,Y	11,12
	19,23	13	5,7		7,[8],9.3	8,[11],12
	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 3e - STR Results

67PJJV	Identifiler® Plus	16,17,18,20		15,16,17	11,13	
3e		8,10,12	11,13,14,15		10,11,12	9,11,13
		12,16	13,14,14.2,15	29,31.2,32.2	X,Y	10,11,12
		19,20,23			7,8,9.3	8,11,12
		15,16,17				
6A322Q	PowerPlex® Fusion 5C	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13
3e		8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y
		19,20,23	13	5,7,12		7,8,9.3
		15,16,17	10			8,11,12
6ARF9P	Investigator® 24plex (STRmix)	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13
3e		8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y
		19,20,23		20,27.2,28.2,29.2		7,8,9.3
		15,16,17	10			8,11,12
6BVUWA	GlobalFiler™	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13
3e		8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y
		19,20,23		20,27.2,28.2,29.2		7,8,9.3
		15,16,17	10			2
6JWKWZ	PowerPlex® Fusion (STRmix)	12,15,17.3	16,17,20	10,11,14	15,16,17	11,13
3e		8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y
		19,20,23	13	5,7,12		7,8,9.3
		15,17	10			8,11,12
6LDEG7	GlobalFiler™ (STRmix)	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13
3e		8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y
		19,20,23		20,27.2,28.2,29.2		7,8,9.3
		15,16,17	10			8,11,12
6LTX24	GlobalFiler™ (STRmix)	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13
3e		8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y
		19,20,23		20,27.2,28.2,29.2		7,8,9.3
		15,16,17	10			8,11,12
						2

TABLE 1

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

Item 3e - STR Results

6NDTKY	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
74QD2U	PowerPlex® Fusion 6C (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12	20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10	17	15		
7AGNBT	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
7GCQD4	(STRMix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
7HQCNDQ	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
7JC79M	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
7RYN4A	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	

TABLE 1

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

Item 3e - STR Results

7T7736	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	--	--	20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10	--	--	2	
8EE2RN	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
8KU88U	GlobalFiler™ IQC					
	(12),15,17.3	(16),17,(18),20	10,(11),14	(15),16,17	11,(13)	
3e	(8,10),12	(11),13,14,(15)	13,(14)	(19),20,(23),24	(10),11,12	(9),11,13
	12,(16)	(13),14,14.2,(15)	(29),31.2,32.2	11,15	X,(Y)	(10),11,12
	19,(20),23			20,27.2,(28.2,29.2)	7,(8),9.3	8,(11),12
	15,(16),17	10			(2)	
8RZL7P	Investigator® 24plex (STRmix)					
	12,15,17.3	17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	14,14.2	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10				
8YZ2VX	PowerPlex® Fusion (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,17	10				
984XYU	PowerPlex® Fusion 6C					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	-
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12	13,14,14.2,15	29,31.2,32.2	11,15	X	10,11,12
	19,20,23	13	5,7,12	20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10	17	15	-	
9J2BEQ	GlobalFiler™ (STRmix)					
	12,14,15,17.3,Q	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	12,13,14,Q	19,20,23,24	10,11,12	9,11,12,13,Q
	12,16	13,14,14.2,15	29,30.2,31.2,32.2, Q	11,15,Q	X,Y	10,11,12,Q
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12,Q
	14,15,16,17,Q	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 3e - STR Results

9K4WLQ	PowerPlex® Fusion 5C					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
9TUJZH	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
9U8W3T	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
9WLF7M	PowerPlex® ES16					
	12,[14],15,[17.3]	16,[17],18	[10],11,14	15,[16],17		
3e		11,13,14,15	13,14	19,20,23,[24]		9,11,[13]
	12,[16]	13,14,[14.2],15	29,31.2,[32.2]	[11],15	X,[Y]	
	19,20,23				7,[8,9.3]	
	[15],16,17					
9XE927	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
9XLUAF	GlobalFiler™					
	[12],15,17.3	[16],17,[18],20	10,[11],14	[15],16,17	11,[13]	
3e	[8],[10],12	[11],13,14,[15]	13,[14]	[19],20,[23],24	[10],[11],12	[9],11,13
	12,[16]	[13],14,14.2,[15]	[29],31.2,32.2	11,15	X,[Y]	[10],11,12
	19,[20],23			20,27.2,[28.2],[29.2]	7,[8],9.3	8,12
	15,17	10			2	
A349UR	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	

TABLE 1

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

Item 3e - STR Results

A682M6	GlobalFiler™					
	[12],15,17.3	[16],17,[18],20	10,[11],14	[15],16,17	11,11,[13]	
	3e [8],[10],12,12	[11],13,14,[15]	13,13,[14]	[19],20,[23],24	[10],11,12	[9],11,13
	12,12,[16]	[13],14,14.2,[15]	[29],31.2,32.2	11,15	X,X,[Y]	[10],11,12
	19,[20],23			20,27.2,[28.2],[29.2]	7,[8],9.3	8,[11],12
	15,[16],17	[10]		[2]		
AT6LLG	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,24	11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,12
	15,17	10		2		
AWWHRL	PowerPlex® Fusion 5C					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
B98CH6	GlobalFiler™					
	[12],15,17.3	[16],17,[18],20	10,[11],14	[15],16,17	11,11,[13]	
	3e [8],[10],12,12	[11],13,14,[15]	13,13,[14]	[19],20,[23],24	[10],11,12	[9],11,13
	12,12,[16]	[13],14,14.2,[15]	[29],31.2,32.2	11,15	X,X,[Y]	[10],11,12
	19,[20],23			20,27.2,[28.2],[29.2]	7,[8],9.3	8,[11],12
	15,[16],17	[10]		[2]		
BBABTX	PowerPlex® Fusion 5C					
	[12],15,17.3	[16],17,18,20	10,14	15,16,17	11	
	3e [8],12	[11],13,14,15	13,[14]	[19],20,24	11,12	[9],11,13
	12,[16]	[13],14,14.2,[15]	[29],31.2,32.2	11,15	X,Y	[10],11,12
	19,[20],23	13	5,7,[12]		7,[8],9.3	8,[11],12
	15,[16],17					
BCNW3Y	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10		2		
BT2QAN	Identifiler® Plus					
		16,17,18,20		15,16,17	11,13	
	3e 8,10,12	11,13,14,15			10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2		X,Y	10,11,12
	19,20,23				7,8,9.3	8,11,12
	15,16,17					

TABLE 1

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

Item 3e - STR Results

BV84XG	PowerPlex® Fusion (TrueAllele)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
C42FQP	PowerPlex® Fusion 6C					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13,13	5,7,12	20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10	17	15		
C4HR9U	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
C89NEZ	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
C8MBQM	PowerPlex® Fusion 5C					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
C8ZRMP	GlobalFiler™ PCR Amplification Kit					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
CABMGU	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	

TABLE 1

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

Item 3e - STR Results

CK3H9U	PowerPlex® Fusion 5C						
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
		19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10					
CNKHLN	GlobalFiler™						
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,[13]	
	3e	[8],[10],12	11,13,14,15	13,14	19,20,23,24	10,11,12	[9],11,13
		12,[16]	13,14,14.2,15	29,31.2,32.2	11,15	X,[Y]	[10],11,[12]
		[19],[20],23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2		
CUF89M	GlobalFiler™						
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
		19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2		
D36HVN	PowerPlex® Fusion						
		12,15,17.3	16,17,20	10,11,14	15,16,17	11,13	
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
		19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10					
DGLAKU	PowerPlex® Fusion 5C						
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
		19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10					
DKRT2M	PowerPlex® Fusion 6C (STRmix v2.6.3)						
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	11,12
		19,20,23	13	5,7,12	20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10	17	15			
DNQ4XM	PowerPlex® Fusion 6C (STRmix v2.6.3)						
		15,17.3	16,17,18,20	10,11,14	15,16,17	11	
	3e	8,12	13,14,15	13,14	19,20,24	10,11,12	11,13
		12,16	14,14.2	29,31.2,32.2	11,15	X,Y	11,12
		19,23	13	5,7	20,27.2,28.2,29.2	7,9.3	8,11,12
	15,17	10					

TABLE 1

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

Item 3e - STR Results

DPFH6L	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	NA
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	NA	NA	20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10	NA	NA	2	
DQ8EUE	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
EAL9CY	GlobalFiler™					
	[12],15,17.3	[16],17,[18],20	10,[11],14	[15],16,17	11,11,[13]	
	3e [8],[10],12,12	[11],13,14,[15]	13,13,[14]	[19],20,[23],24	[10],11,12	[9],11,13
	12,12,[16]	[13],14,14.2	[29],31.2,32.2	11,15	X,X,[Y]	[10],11,12
	19,[20],23			20,27.2,[28.2],[29.2]	7,[8],9.3	8,[11],12
	15,[16],17	[10]		[2]		
EJBWAM	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10		2		
EKYBGL	GlobalFiler™ (STRmix)					
	12,14,15,16.3,17.3, Q	16,17,18,19,20,Q	9,10,11,13,14,Q	15,16,17,Q	10,11,13,Q	
	3e 8,10,11,12,Q	11,12,13,14,15,Q	12,13,14,Q	19,20,23,24,Q	10,11,12,Q	9,10,11,12,13,Q
	11,12,16,Q	13,13.2,14,14.2,15, Q	29,30.2,31.2,32.2, Q	11,14,15,Q	X,Y	10,11,12,Q
	18,19,20,22,23,Q			19,20,26.2,27.2,28.2, ,29.2,Q	6,7,8,9.3,Q	8,11,12,Q
	14,15,16,17,Q	10		2		
EMB6DX	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10		2		

TABLE 1

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

Item 3e - STR Results

EZT32M	PowerPlex® Fusion					
	12,15,17.3	17,20	10,11,14	16,17	11,13	
3e	8,12	11,13,14,15	13,14	20,24	11,12	11,13
	12,16	14,14.2	29,31.2,32.2	11,15	X,Y	10,11,12
	19,23	13	5,7		7,9.3	8,11,12
	15,17	10				
F6G2TM	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,17	10				
FGGP4G	GlobalFiler™					
	[12],15,17.3	[16],17,[18],20	10,[11],14	[15],16,17	11,[13]	
3e	[8],[10],12	[11],13,14,[15]	13,[14]	[19],20,[23],24	[10],11,12	[9],11,13
	12,[16]	[13],14,14.2,[15]	[29],31.2,32.2	11,15	X,[Y]	[10],11,12
	19,[20],23			20,27.2,[28.2],[29.2]	7,[8],9.3	8,[11],12
	15,[16],17	[10]			[2]	
FLWXRF	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
FWQGPA	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
FWT2LQ	GlobalFiler™ (STRmix v 2.9.1)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
GAVYZA	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				

TABLE 1

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

Item 3e - STR Results

GJHZGJ	GlobalFiler™						
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	N/A
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
		19,20,23	N/A	N/A	20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10	N/A	N/A	2		
GQUCAB	PowerPlex® Fusion 5C (TrueAllele)						
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
		19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10					
GVBJXB	PowerPlex® Fusion 5C						
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
		19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10					
H7M7JG	GlobalFiler™						
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	N/A
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
		19,20,23	N/A	N/A	20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10	N/A	N/A	2		
HCED3P	GlobalFiler™ (STRmix)						
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
		19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2		
HP3FKG	GlobalFiler™						
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
		19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2		
HPECPL	PowerPlex® Fusion						
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
		19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10					

TABLE 1

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

Item 3e - STR Results

HUA7MM	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
HX9KBD	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
HYPEBM	PowerPlex® Fusion 5C					
	12,15,17.3	16,17,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,17	10				
J9DLQU	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
JEHHCE	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
JN6PR8	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
JR8H3G	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	

TABLE 1

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

Item 3e - STR Results

JRTVQU	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
K6XE3U	GlobalFiler™					
	[12],15,17.3	17,[18],20	10,[11],14	[15],16,17	11,[13]	
3e	[8],[10],12	[11],13,14,[15]	13,[14]	[19],20,[23],24	[10],11,12	[9],11,13
	12,[16]	[13],14,14.2,[15]	[29],31.2,32.2	11,15	X,[Y]	[10],11,12
	19,[20],23			20,27.2,[28.2],[29.2]	7,[8],9.3	8,[11],12
	15,17	[10]			[2]	
K78GQE	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
KGMB4T	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
KJ6XWF	PowerPlex® Fusion 5C					
	12,15,17.3	17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,17	10				
KURTER	GlobalFiler™					
	[12],15,17.3	[16],17,[18],20	10,[11],14	[15],16,17	11,11,[13]	
3e	[8],[10],12,12	[11],13,14,[15]	13,13,[14]	[19],20,[23],24	[10],11,12	[9],11,13
	12,12,[16]	[13],14,14.2,[15]	[29],31.2,32.2	11,15	X,X,[Y]	[10],11,12
	19,[20],23			20,27.2,[28.2],[29.2]	7,[8],9.3	8,[11],12
	15,[16],17	NR			[2]	
LFX2QH	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				

TABLE 1

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

Item 3e - STR Results

LRBYVL	GlobalFiler™					
	[12],15,17.3	[16],17,[18],20	10,[11],14	[15],16,17	11,[13]	
	3e [8,10],12	[11],13,14,[15]	13,[14]	[19],20,[23],24	11,12	[9],11,13
	12,[16]	[13],14,14.2,[15]	[29],31.2,32.2	11,15	X,[Y]	[10],11,12
	19,[20],23			20,27.2,[28.2,29.2]	7,[8],9.3	8,[11],12
	15,[16],17	10		2		
M4PA7H	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2,30.2	7,8,9.3	8,11,12
	15,16,17	10		2		
M9HH7H	PowerPlex® Fusion 5C (STRmix)					
	12,15,17.3	16,17,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,17	10				
MJLNFB	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10		2		
MQXPHE	PowerPlex® Fusion (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
MTT6BM	GlobalFiler™ (STRMix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10		2		
MUE8KH	PowerPlex® 21 (STRmix)					
	12,15,17.3	16,17,18,20		15,16,17	11,13	11,12,18,19
	3e 8,10,12	11,13,14,15		19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2		X,Y	10,11,12
	19,20,23	13,13	5,7,12		7,8,9.3	8,11,12
	15,16,17					

TABLE 1

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

Item 3e - STR Results

MX73HA	GlobalFiler™					
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y
		19,20,23			20,27.2,28.2,29.2	7,8,9.3
	15,16,17	10			2	
NKL2GH	PowerPlex® Fusion 5C					
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y
		19,20,23	13,13	5,7,12		7,8,9.3
	15,16,17	10				
NZQGKP	GlobalFiler™					
		[12],15,17.3	[16],17,[18],20	10,[11],14	[15],16,17	11,11,[13]
	3e	[8],[10],12,12	[11],13,14,[15]	13,13,[14]	[19],20,[23],24	[10],11,12
		12,12,[16]	[13],14,14.2,[15]	[29],31.2,32.2	11,15	X,X,[Y]
		19,[20],23			20,27.2,[28.2],[29.2]	7,[8],9.3
	15,[16],17	[10]			[2]	
P7QTH8	GlobalFiler™					
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y
		19,20,23			20,27.2,28.2,29.2	7,8,9.3
	15,16,17	10			2	
PGLCDG	PowerPlex® Fusion					
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y
		19,20,23	13	5,7,12		7,8,9.3
	15,16,17	10				
PHKA6M	GlobalFiler™ (STRmix)					
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y
		19,20,23			20,27.2,28.2,29.2	7,8,9.3
	15,16,17	10			2	
PTFT3G	GlobalFiler™ (STRmix)					
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y
		19,20,23			20,27.2,28.2,29.2	7,8,9.3
	15,16,17	10			2	

TABLE 1

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

Item 3e - STR Results

PX73CF	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
Q2UN39	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
QR2LGZ	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
QZR4V9	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10		2		
R6G688		16,17,18,20		15,16,17	11,11	
	3e 12,12	11,13,14,15			10,11,12	11,13
	12,12	13,14,14.2	31.2,32.2		X,Y	11,12
	19,23				7,9.3	8,12
		15,16,17				
R8G2EF	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10		2		
R99X4A	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10		2		

TABLE 1

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

Item 3e - STR Results

RK3B2L	GlobalFiler™					
	[12],15,17.3	[16],17,[18],20	10,[11],14	[15],16,17	11,11,[13]	
	3e [8],[10],12,12	[11],13,14,[15]	13,13,[14]	[19],20,[23],24	[10],11,12	[9],11,13
	12,12,[16]	[13],14,14.2,[15]	[29],31.2,32.2	11,15	X,X,[Y]	[10],11,12
	19,[20],23			20,27.2,[28.2],[29.2]	7,[8],9.3	8,[11],12
	15,[16],17	[10]		[2]		
RQLLXB	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	NA
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	NA	NA	20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10	NA	2		
RRR97A	PowerPlex® Fusion 5C					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
RVCW8A	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10		2		
RVU37Y	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
T9GPXC	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14,Q	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,14,15,Q	X,Y	10,11,12,Q
	19,20,23,Q			20,27.2,28.2,29.2	7,8,9.3	8,11,12,Q
	15,16,17,Q	10		2		
TFM3DL	GlobalFiler™					
	[12],15,17.3	[16],17,[18],20	10,[11],14	[15],16,17	11,[13]	
	3e [8],[10],12	[11],13,14,[15]	13,[14]	19,20,23,24	[10],11,12	[9],11,13
	12,[16]	[13],14,14.2,[15]	[29],31.2,32.2	11,15	X,[Y]	[10],11,12
	19,[20],23			20,27.2,[28.2],[29.2]	7,[8],9.3	8,[11],12
	15,[16],17	[10]		[2]		

TABLE 1

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

Item 3e - STR Results

TN9ATE	PowerPlex® Fusion 5C					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13,13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
TQ2FWC	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12,Q
	15,16,17	10			2	
TWHX7D	PowerPlex® Fusion 5C					
	15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	-
3e	10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12	-	7,8,9.3	8,11,12
	15,16,17	10	-	-	-	
TX62K6	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
U33KC3	Investigator® 24plex (STRMix)					
	12,15,17.3	17,20	10,11,14	16,27	11,13	
3e	12,12	13,14	13,13	20,24	11,12	11,13
	12,16	14,14.2	31.2,32.2	11,15	XX	11,12
	19,23			20,27.2	7,9.3	8,11,12
	15,17	10				
UAHLG7	PowerPlex® Fusion 6C (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12	20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10		15		
UBJWUA	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				

TABLE 1

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

Item 3e - STR Results

UEATZE	GlobalFiler™ (STRmix v2.8)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
UQYV2V	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
VM99JT	GlobalFiler™					
	[12],15,17.3	17,[18],20	10,[11],14	[15],16,17	11,[13]	
3e	[8],[10],12	[11],13,14,[15]	13,[14]	20,[23],24	11,12	[9],11,13
	12,[16]	14,14.2	[29],31.2,32.2	11,15	X,[Y]	11,12
	19,23			20,27.2,[28.2]	7,9.3	8,12
	15,17	10			2	
VQXEJF	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
VVK8D4	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
VZVH4C	GlobalFiler™					
	15,17.3	17,20	10,14	[15],16,17	11	
3e	[8],12	[11],13,14,[15]	13,[14]	[19],20,[23],24	11,12	[9],11,13
	12,[16]	14,14.2	31.2,32.2	11,15	X,[Y]	11,12
	19,[20],23			20,27.2,[28.2],[29.2]	7,[8],9.3	8,12
	15,17	10			2	
W3DYY3	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	NA
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	NA	NA	20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10	NA	NA	2	

TABLE 1

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

Item 3e - STR Results

WAHXAR	GlobalFiler™ (STRmix)						
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13		
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12	
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12	
	15,16,17	10			2		
WEVFRA	PowerPlex® Fusion 5c						
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13		
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12	
	19,20,23	13	5,7,12		7,8,9.3	8,11,12	
	15,17	10					
WGQWKG	GlobalFiler™						
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13		
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12	
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12	
	15,16,17	10			2		
WHTZVT	GlobalFiler™ (STRmix)						
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13		
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12	
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12	
	15,16,17	10			2		
WLG7VF	GlobalFiler™ (STRmix)						
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13		
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12	
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12	
	15,16,17	10			2		
WQV433	PowerPlex® Fusion						
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13		
	3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12	
	19,20,23	13	5,7,12		7,8,9.3	8,11,12	
	15,16,17	10					
X8QYVU	PowerPlex® Fusion 5C						
	[12],15,17.3	[16],17,[18],20	10,[11],14	[15],16,17	11,[13]		
	3e	[8,10],12	[11],13,14,[15]	13,[14]	[19],20,[23],24	[10],11,12	[9],11,13
	12,[16]	[13],14,14.2,[15]	[29],31.2,32.2	11,15	X,[Y]	[10],11,12	
	19,[20],23	13	5,7,[12]		7,[8],9.3	8,[11],12	
	15,[16],17	[10]					

TABLE 1

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

Item 3e - STR Results

XLQXJQ	GlobalFiler™					
	[12],15,[17.3]	[16],17,[18],20	10,[11],14	[15],16,17	11,[13]	
	3e [8],[10],12	[11],13,14,[15]	13,[14]	[19],20,23,24	[10],11,12	[9],11,13
	12,[16]	[13],14,14.2,[15]	[29],31.2,[32.2]	11,15	X,[Y]	[10],11,12
	19,[20],23			20,27.2,[28.2],[29.2]	7,[8],9.3	8,[11],12
	15,[16],17	10		2		
XX2BY7	PowerPlex® 5C					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
XYGRBA	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10		2		
Y27F9W	PowerPlex® Fusion 5C					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
Y4NKLA	PowerPlex® Fusion 5C					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13,13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
Y6V3J6	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
YJ77PY	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3e 8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10		2		

TABLE 1

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

Item 3e - STR Results

YQ7PPA	GlobalFiler™ (STRmix™)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
YXGUH4	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
ZE2VX7	GlobalFiler™ (STRmix)					
	12,15,17.3,Q	16,17,18,20	10,11,14	15,16,17,Q	11,13,Q	
3e	8,10,12	11,13,14,15	13,14,Q	19,20,23,24	10,11,12	9,11,13,Q
	12,16	13,14,14.2,15	29,30.2,31.2,32.2,Q	11,15,Q	X,Y	10,11,12,Q
	19,20,22,23,Q			20,27.2,28.2,29.2	7,8,9.3,Q	8,11,12,Q
	15,16,17,Q	10			2	
ZEAYJV	GlobalFiler™					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	
ZG3DKZ	NGM SElect					
	12,15,17.3	16,17,[18],20	10,11,14	15,16,17		
3e		11,13,14,15	13,14	19,20,23,24		11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	
	19,20,23			20,27.2,28.2,29.2	7,[8],9.3	
	15,16,17					
ZGQC6T	PowerPlex® Fusion (TrueAllele)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
ZKU2ND	GlobalFiler™					
	[12],15,17.3	[16],17,[18],20	10,[11],14	[15],16,17	11,11,[13]	
3e	[8],[10],12,12	[11],13,14,[15]	13,13,[14]	[19],20,[23],24	[10],11,12	[9],11,13
	12,12,[16]	[13],14,14.2,[15]	[29],31.2,32.2	11,15	X,X,[Y]	[10],11,12
	19,[20],23			20,27.2,[28.2],[29.2]	7,[8],9.3	8,[11],12
	15,[16],17	[10]			[2]	

TABLE 1

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

Item 3e - STR Results

ZMW6YN	GlobalFiler™					
	[12],15,17.3	[16],17,[18],20	10,[11],14	[15],16,17	11,[13]	
3e	[8],[10],12	[11],13,14,[15]	13,[14]	[19],20,[23],24	[10],11,12	[9],11,13
	12,[16]	[13],14,14.2,[15]	[29],31.2,32.2	11,15	X,[Y]	[10],11,12
	19,23			20,27.2,[28.2],[29.2]	7,[8],9.3	8,[11],12
	15,[16],17	10			2	
ZYUZCA	GlobalFiler™ (STRmix)					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3e	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23			20,27.2,28.2,29.2	7,8,9.3	8,11,12
	15,16,17	10			2	

TABLE 1

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

Item 3sp - STR Results

29ACNM	GlobalFiler™					
		12,15	16,18	11,14	15,15	11,13
3sp		8,10	11,15	14,14	19,23	10,12
		12,16	13,15	29,31.2	15,15	X,Y
		20,23			28.2,29.2	7,8
		16,17	10			2
2A46J7	GlobalFiler™					
		12,15	16,18	11,14	15	11,13
3sp		8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23			28.2,29.2	7,8
		16,17	10			2
2EETJ3	PowerPlex® Fusion 5C					
		12,15	16,18	11,14	15	11,13
3sp		8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23	13	7,12		7,8
		16,17	10			
2GZXRZ	PowerPlex® Fusion					
		12,15	16,18	11,14	15	11,13
3sp		8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23	13	7,12		7,8
		16,17	10			
2JTTFU	GlobalFiler™ (STRmix)					
		12,15	16,18	11,14	15	11,13
3sp		8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23			28.2,29.2	7,8
		16,17	10			2
2LN8KX	PowerPlex® Fusion					
		12,15	16,18	11,14	15	11,13
3sp		8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23	13	7,12		7,8
		16,17	10			
2QBYDZ	PowerPlex® 5C					
		12,15	16,18	11,14	15	11,13
3sp		8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23	13	7,12		7,8
		16,17	10			

TABLE 1

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

Item 3sp - STR Results

2R3V2U	GlobalFiler™ (STRmix)						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
33XNMQ	GlobalFiler™ (STRmix)						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
428KAA	GlobalFiler™ (STRmix)						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
4GWW66	PowerPlex® Fusion 5C						
		12,15	16,18	11,14	15,15	11,13	
	3sp	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23	13,13	7,12		7,8	8,11
		16,17	10				
4MZZQW	GlobalFiler™						
		12,15	16,18	11,14	15,15	11,13	
	3sp	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
4XT2RR	GlobalFiler™						
		12,15	16,18	11,14	15,15	11,13	
	3sp	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
64DPZ3	PowerPlex® Fusion 5C						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23	13	7,12		7,8	8,11
		16,17	10				

TABLE 1

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

Item 3sp - STR Results

67PJJV	Identifiler® Plus					
		16,18		15,15	11,13	
3sp		8,10	11,15		10,12	9,11
		12,16	13,15	29,31.2	X,Y	10,11
		20,23			7,8	8,11
		16,17				
6A322Q	PowerPlex® Fusion 5C					
		12,15	16,18	11,14	15	11,13
3sp		8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23	13	7,12	7,8	8,11
		16,17	10			
6ARF9P	Investigator® 24plex (STRmix)					
		12,15	16,18	11,14	15,15	11,13
3sp		8,10	11,15	14,14	19,23	10,12
		12,16	13,15	29,31.2	15,15	X,Y
		20,23		28.2,29.2	7,8	8,11
		16,17	10			
6BVUWA	GlobalFiler™					
		12,15	16,18	11,14	15,15	11,13
3sp		8,10	11,15	14,14	19,23	10,12
		12,16	13,15	29,31.2	15,15	X,Y
		20,23		28.2,29.2	7,8	8,11
		16,17	10		2	
6JWKWZ	PowerPlex® Fusion (STRmix)					
		12,15	16,18	11,14	15	11,13
3sp		8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23	13	7,12	7,8	8,11
		16,17	10			
6LDEG7	GlobalFiler™ (STRmix)					
		12,15	16,18	11,14	15,16	11,13
3sp		8,10,12	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23		28.2,29.2	7,8	8,11
		16,17	10		2	
6LTX24	GlobalFiler™ (STRmix)					
		12,15	16,18	11,14	15	11,13
3sp		8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23		28.2,29.2	7,8	8,11
		16,17	10		2	

TABLE 1

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

Item 3sp - STR Results

6NDTKY	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
74QD2U	PowerPlex® Fusion 6C (STRmix)					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12	28.2,29.2	7,8	8,11
	16,17	10	17	15		
7AGNBT	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
7GCQD4	(STRMix)					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
7HQCNQ	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
7JC79M	PowerPlex® Fusion					
	12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
3sp	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
	12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
	19,20,23	13	5,7,12		7,8,9.3	8,11,12
	15,16,17	10				
7RYN4A	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	

TABLE 1

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

Item 3sp - STR Results

7T7736	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	--	--	28.2,29.2	7,8	8,11
	16,17	10	--	--	2	
8EE2RN	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
8KU88U	GlobalFiler™ IQC					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
8RZL7P	Investigator® 24plex (STRmix)					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10				
8YZ2VX	PowerPlex® Fusion (STRmix)					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
984XYU	PowerPlex® Fusion 6C					
	12,15	16,18	11,14	15	11,13	-
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12	28.2,29.2	7,8	8,11
	16,17	10	17	15	-	
9J2BEQ	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	

TABLE 1

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

Item 3sp - STR Results

9K4WLQ	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
9TUJZH	PowerPlex® Fusion					
	12,15,[17.3]	16,[17],18,[20]	[10],11,14	15,[16],[17]	11,13	
3sp	8,10,[12]	11,[13],[14],15	[13],14	19,[20],23,[24]	10,[11],12	9,11,[13]
	12,16	13,[14],[14.2],15	29,31.2,[32.2]	[11],15	X,Y	10,11,[12]
	[19],20,23	13	[5],7,12		7,8,[9.3]	8,11,[12]
	[15],16,17	10				
9U8W3T	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
9WLF7M	PowerPlex® ES16					
	12,15	16,18	11,14	15		
3sp		11,15	14	19,23		9,11
	12,16	13,15	29,31.2	15	X,Y	
	20,23				7,8	
	16,17					
9XE927	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
9XLUAF	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
A349UR	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	

TABLE 1

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

Item 3sp - STR Results

A682M6	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
AT6LLG	GlobalFiler™ (STRmix)					
	12,15	16,18,20	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			20,28.2,29.2	7,8,9.3	8,11
	16,17	10			2	
AWWHRL	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
B98CH6	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
BBABTX	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
BCNW3Y	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
BT2QAN	Identifiler® Plus					
		16,18		15,15	11,13	
3sp	8,10	11,15			10,12	9,11
	12,16	13,15	29,31.2		X,Y	10,11
	20,23				7,8	8,11
	16,17					

TABLE 1

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

Item 3sp - STR Results

BV84XG	PowerPlex® Fusion (TrueAllele)					
	12,15,[17.3]	16,[17],18,[20]	[10],11,14	15,[16],[17]	11,13	
3sp	8,10,[12]	11,[13],[14],15	[13],14	19,[20],23	10,[11],12	9,11,[13]
	12,16	13,[14],[14.2],15	29,31.2,[32.2]	[11],15	X,Y	10,11,[12]
	[19],20,23	13	[5],7,12		7,8,[9.3]	8,11,[12]
	[15],16,17	10				
C42FQP	PowerPlex® Fusion 6C					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	13,13	7,12	28.2,29.2	7,8	8,11
	16,17	10	17	15		
C4HR9U	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
C89NEZ	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
C8MBQM	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
C8ZRMP	GlobalFiler™ PCR Amplification Kit					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
CABMGU	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	

TABLE 1

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

Item 3sp - STR Results

CK3H9U	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	13,13	7,12		7,8	8,11
	16,17	10				
CNKHLN	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
CUF89M	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
D36HVN	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
DGLAKU	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
DKRT2M	PowerPlex® Fusion 6C (STRmix v2.6.3)					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12	28.2,29.2	7,8	8,11
	16,17	10	17	15		
DNQ4XM	PowerPlex® Fusion 6C (STRmix v2.6.3)					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12	28.2,29.2	7,8	8,11
	16,17	10	17	15		

TABLE 1

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

Item 3sp - STR Results

DPFH6L	GlobalFiler™						
		12,15	16,18	11,14	15	11,13	NA
	3sp	8,10	11,13,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	11,15	X,Y	10,11
		20,23	NA	NA	28.2,29.2	7,8,9.3	8,11
		16,17	10	NA	NA	2	
DQ8EUE	PowerPlex® Fusion						
		12,15,[17.3]	16,[17],18,[20]	[10],11,14	15,[16]	11,13	
	3sp	8,10,[12]	11,[13],[14],15	[13],14	19,23,[24]	10,[11],12	9,11,[13]
		12,16	13,[14],[14.2],15	29,31.2,[32.2]	[11],15	X,Y	10,11
		[19],20,23	13	7,12		7,8,[9.3]	8,11,[12]
		[15],16,17	10				
EAL9CY	GlobalFiler™						
		12,15	16,18	11,14	15,15	11,13	
	3sp	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
EJBWAM	GlobalFiler™						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
EKYBGL	GlobalFiler™ (STRmix)						
		12,15	16,18	11,14	15,15	11,13	
	3sp	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
EMB6DX	GlobalFiler™ (STRmix)						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
EZT32M	PowerPlex® Fusion						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23	13	7,12		7,8	8,11
		16,17	10				

TABLE 1

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

Item 3sp - STR Results

F6G2TM	PowerPlex® Fusion					
		12,15	16,18	11,14	15	11,13
3sp		8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23	13	7,12		7,8
		16,17	10			8,11
FGGP4G	GlobalFiler™					
		12,15	16,18	11,14	15	11,13
3sp		8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23			28.2,29.2	7,8
		16,17	10			8,11
						2
FLWXRF	PowerPlex® Fusion					
		12,15	16,18	11,14	15	11,13
3sp		8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23	13	7,12		7,8
		16,17	10			8,11
FWQGPA	GlobalFiler™ (STRmix)					
		12,15,17.3	16,18	11,14	15	11,13
3sp		8,10	11,15	14	19,23,24	10,12
		12,16	13,14.2,15	29,31.2	15	X,Y
		20,23			20,28.2,29.2	7,8,9.3
		16,17	10			8,11,12
						2
FWT2LQ	GlobalFiler™ (STRmix v 2.9.1)					
		12,15	16,18	11,14	15	11,13
3sp		8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23			28.2,29.2	7,8
		16,17	10			8,11
						2
GAVYZA	PowerPlex® Fusion					
		12,15	16,[17],18,[20]	11,14	15,[16]	11,13
3sp		8,10,[12]	11,[13],[14],15	[13],14	19,[20],23,[24]	10,[11],12
		12,16	13,[14],[14.2],15	29,31.2,[32.2]	15	X,Y
		[19],20,23	13	[5],7,12		7,8,[9.3]
		[15],16,17	10			8,11,[12]
GJHZGJ	GlobalFiler™					
		12,15,17.3	16,18	11,14	15,16,17	11,13
3sp		8,10,12	11,15	14	19,23	10,12
		12,16	13,14,15	29,31.2,32.2	11,15	X,Y
		20,23	N/A	N/A	20,28.2,29.2	7,8
		16,17	10	N/A	N/A	8,11
						2

TABLE 1

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

Item 3sp - STR Results

GQUCAB	PowerPlex® Fusion 5C (TrueAllele)						
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3sp	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12	9,11,13
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
		19,20,23	13	5,7,12		7,8,9.3	8,11,12
		15,16,17	10				
GVBJXB	PowerPlex® Fusion 5C						
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13	
	3sp	8,10,12	11,13,14,15	13,14	19,20,23	10,11,12	9,11
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y	10,11,12
		19,20,23	13	5,7,12		7,8,9.3	8,11,12
		15,16,17	10				
H7M7JG	GlobalFiler™						
		12,15	16,18	11,14	15	11,13	N/A
	3sp	8,10	11,13,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	11,15	X,Y	10,11
		20,23	N/A	N/A	28.2,29.2	7,8,9.3	8,11
		16,17	10	N/A	N/A	2	
HCED3P	GlobalFiler™ (STRmix)						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
HP3FKG	GlobalFiler™						
		12,15	16,18,20	11,14	15,17	11,13	
	3sp	8,10,12	11,13,15	14	19,23	10,11,12	9,11,13
		12,16	13,15	29,31.2	11,15	X,Y	10,11
		20,23			20,28.2,29.2	7,8	8,11,12
		16,17	10			2	
HPECPL	PowerPlex® Fusion						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23	13	7,12		7,8	8,11
		16,17	10				
HUA7MM	PowerPlex® Fusion						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23	13	7,12		7,8	8,11
		16,17	10				

TABLE 1

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

Item 3sp - STR Results

HX9KBD	GlobalFiler™ (STRmix)						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
	16,17	10			2		
HYPEBM	PowerPlex® Fusion 5C						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23	13	7,12		7,8	8,11
	16,17	10					
J9DLQU	GlobalFiler™						
		12,15	16,18	11,14	15,15	11,13	
	3sp	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
	16,17	10			2		
JEHHCE	PowerPlex® Fusion						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23	13	7,12		7,8	8,11
	16,17	10					
JN6PR8	PowerPlex® Fusion						
		12,15	16,[17],18,[20]	[10],11,14	15,[16],[17]	11,13	
	3sp	8,10,[12]	11,[13],[14],15	[13],14	19,23	10,[11],12	9,11,[13]
		12,16	13,[14],15	29,31.2,[32.2]	[11],15	X,Y	10,11,[12]
		[19],20,23	13	[5],7,12		7,8,[9.3]	8,11,[12]
	[15],16,17	10					
JR8H3G	GlobalFiler™						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
	16,17	10			2		
JRTVQU	GlobalFiler™						
		12,15	16,18	11,14	15,15	11,13	
	3sp	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
	16,17	10			2		

TABLE 1

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

Item 3sp - STR Results

K6XE3U	GlobalFiler™						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
K78GQE	PowerPlex® Fusion						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23	13	7,12		7,8	8,11
		16,17	10				
KGMB4T	GlobalFiler™ (STRmix)						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
KJ6XWF	PowerPlex® Fusion 5C						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23	13	7,12		7,8	8,11
		16,17	10				
KURTER	GlobalFiler™						
		12,15	16,18	11,14	15,15	11,13	
	3sp	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	
LFX2QH	PowerPlex® Fusion						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23	13	7,12		7,8	8,11
		16,17	10				
LRBYVL	GlobalFiler™						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
		16,17	10			2	

TABLE 1

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

Item 3sp - STR Results

M4PA7H	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
M9HH7H	PowerPlex® Fusion 5C (STRmix)					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
MJLNFB	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
MQXPHE	PowerPlex® Fusion (STRmix)					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
MTT6BM	GlobalFiler™ (STRMix)					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
MUE8KH	PowerPlex® 21 (STRmix)					
	12,15	16,18		15,15	11,13	11,12
3sp	8,10	11,15		19,23	10,12	9,11
	12,16	13,15	29,31.2		X,Y	10,11
	20,23	13,13	7,12		7,8	8,11
	16,17					
MX73HA	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	

TABLE 1

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

Item 3sp - STR Results

NKL2GH	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	13,13	7,12		7,8	8,11
	16,17	10				
NZQGKP	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
P7QTH8	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
PGLCDG	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
PHKA6M	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
PTFT3G	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
PX73CF	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				

TABLE 1

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

Item 3sp - STR Results

Q2UN39	PowerPlex® Fusion					
		12,15	16,18	11,14	15	11,13
3sp		8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23	13	7,12		7,8
		16,17	10			8,11
QR2LGZ	PowerPlex® Fusion					
		12,15,[17.3]	16,[17],18,[20]	[10],11,14	15,[16],[17]	11,13
3sp		8,10,[12]	11,[13],[14],15	[13],14	19,[20],23	10,[11],12
		12,16	13,[14],[14.2],15	29,31.2,[32.2]	[11],15	X,Y
		[19],20,23	13	[5],7,12		7,8,[9.3]
		[15],16,17	10			8,11,[12]
QZR4V9	GlobalFiler™					
		12,15	16,18	11,14	15	11,13
3sp		8,10	11,13,15	14	19,23	10,12
		12,16	13,15	29,31.2	11,15	X,Y
		20,23			28.2,29.2	7,8,9.3
		16,17	10			2
R6G688			16,18		15,15	11,13
3sp		8,10	11,15			10,12
		12,16	13,15	29,31.2		X,Y
		20,23				7,8
		16,17				8,11
R8G2EF	GlobalFiler™ (STRmix)					
		12,15	16,18	11,14	15	11,13
3sp		8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23			28.2,29.2	7,8
		16,17	10			8,11
						2
R99X4A	GlobalFiler™					
		12,15	16,18	11,14	15	11,13
3sp		8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23			28.2,29.2	7,8
		16,17	10			8,11
						2
RK3B2L	GlobalFiler™					
		12,15	16,18	11,14	15,15	11,13
3sp		8,10	11,15	14,14	19,23	10,12
		12,16	13,15	29,31.2	15,15	X,Y
		20,23			28.2,29.2	7,8
		16,17	10			8,11
						2

TABLE 1

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

Item 3sp - STR Results

RQLLXB	GlobalFiler™						
		12,15	16,18	11,14	15	11,13	NA
	3sp	8,10	11,13,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	11,15	X,Y	10,11
		20,23	NA	NA	28.2,29.2	7,8,9.3	8,11
	16,17	10	NA	NA	2		
RRR97A	PowerPlex® Fusion 5C						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23	13	7,12		7,8	8,11
	16,17	10					
RVCW8A	GlobalFiler™						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10,12	11,13,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
	16,17	10			2		
RVU37Y	PowerPlex® Fusion						
		12,15,[17.3]	16,[17],18,[20]	[10],11,14	15,[16],[17]	11,13	
	3sp	8,10,[12]	11,[13],[14],15	[13],14	19,23	10,[11],12	9,11
		12,16	13,[14],[14.2],15	29,31.2,[32.2]	[11],15	X,Y	10,11,[12]
		[19],20,23	13	7,12		7,8,[9.3]	8,11,[12]
	[15],16,17	10					
T9GPXC	GlobalFiler™ (STRmix)						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
	16,17	10			2		
TFM3DL	GlobalFiler™						
		12,15	16,18	11,14	15	11,13	
	3sp	8,10	11,15	14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15	X,Y	10,11
		20,23			28.2,29.2	7,8	8,11
	16,17	10			2		
TN9ATE	PowerPlex® Fusion 5C						
		12,15	16,18	11,14	15,15	11,13	
	3sp	8,10	11,15	14,14	19,23	10,12	9,11
		12,16	13,15	29,31.2	15,15	X,Y	10,11
		20,23	13,13	7,12		7,8	8,11
	16,17	10					

TABLE 1

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

Item 3sp - STR Results

TQ2FWC	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
TWHX7D	PowerPlex® Fusion 5C					
	12,15	16,18	11,14	15,15	11,13	-
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23	13,13	7,12	-	7,8	8,11
	16,17	10	-	-	-	
TX62K6	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
U33KC3	Investigator® 24plex (STRMix)					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10				
UAHLG7	PowerPlex® Fusion 6C (STRmix)					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12	28.2,29.2	7,8	8,11
	16,17	10	17	15		
UBJWUA	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
UEATZE	GlobalFiler™ (STRmix v2.8)					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	

TABLE 1

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

Item 3sp - STR Results

UQYV2V	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
VM99JT	GlobalFiler™					
	12,15,[17.3]	16,[17],18,[20]	[10],11,14	15,[16],[17]	11,[13]	
3sp	8,10,[12]	11,[13],[14],15	[13],14	19,[20],23,[24]	10,[11],12	9,11,[13]
	12,[16]	13,[14],[14.2],15	[29],31.2,[32.2]	[11],15	X,Y	10,11,[12]
	[19],20,23			[20],[27.2],28.2,29.2	7,8,[9.3]	8,[11],[12]
	[15],16,17	10			2	
VQXEJF	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
VWK8D4	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,13,15	14	19,23,24	10,12	9,11
	12,16	13,15	29,31.2,32.2	11,15	X,Y	10,11
	20,23			28.2,29.2	7,8,9.3	8,11
	16,17	10			2	
VZVH4C	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
W3DYY3	GlobalFiler™					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,13,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	11,15	X,Y	10,11
	20,23			28.2,29.2	7,8,9.3	8,11
	16,17	10			2	
WAHXAR	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	

TABLE 1

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

Item 3sp - STR Results

WEVFRA	PowerPlex® Fusion 5c					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
WGQWKG	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
WHTZVT	GlobalFiler™ (STRmix)					
	12,15	16,18,20	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8,9.3	8,11
	16,17	10			2	
WLG7VF	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	
WQV433	PowerPlex® Fusion					
	12,15	16,18	11,14	15	11,13	
3sp	8,10	11,15	14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15	X,Y	10,11
	20,23	13	7,12		7,8	8,11
	16,17	10				
X8QYVU	PowerPlex® Fusion 5C					
	[12],15,17.3	[16],17,[18],20	10,[11],14	[15],16,17	11,[13]	
3sp	[8,10],12	[11],13,14,[15]	13,[14]	[19],20,[23],24	[10],11,12	[9],11,13
	12,[16]	[13],14,14.2,[15]	[29],31.2,32.2	11,15	X,[Y]	[10],11,12
	19,[20],23	13	5,7,[12]		7,[8],9.3	8,[11],12
	15,[16],17	[10]				
XLQXJQ	GlobalFiler™					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			[27.2],28.2,29.2	7,8	8,11
	16,17	10			2	

TABLE 1

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

Item 3sp - STR Results

XX2BY7	PowerPlex® 5C					
		12,15	16,18	11,14	15	11,13
	3sp	8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23	13	7,12		7,8
		16,17	10			8,11
XYGRBA	GlobalFiler™ (STRmix)					
		12,15	16,18	11,14	15	11,13
	3sp	8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23			28.2,29.2	7,8
		16,17	10			8,11
Y27F9W	PowerPlex® Fusion 5C					
		12,15	16,18	11,14	15	11,13
	3sp	8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23	13	7,12		7,8
		16,17	10			8,11
Y4NKLA	PowerPlex® Fusion 5C					
		12,15	16,18	11,14	15,15	11,13
	3sp	8,10	11,15	14,14	19,23	10,12
		12,16	13,15	29,31.2	15,15	X,Y
		20,23	13,13	7,12		7,8
		16,17	10			8,11
Y6V3J6	PowerPlex® Fusion					
		12,15	16,18	11,14	15	11,13
	3sp	8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23	13	7,12		7,8
		16,17	10			8,11
YJ77PY	GlobalFiler™					
		12,15	16,18	11,14	15	11,13
	3sp	8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23			28.2,29.2	7,8
		16,17	10			8,11
YQ7PPA	GlobalFiler™ (STRmix™)					
		12,15	16,18	11,14	15	11,13
	3sp	8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23			28.2,29.2	7,8
		16,17	10			8,11

TABLE 1

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

Item 3sp - STR Results

YXGUH4	PowerPlex® Fusion					
		12,15	16,18	11,14	15	11,13
	3sp	8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23	13	7,12		7,8
	16,17	10			8,11	
ZE2VX7	GlobalFiler™ (STRmix)					
		12,15	16,18	11,14	15,15	11,13
	3sp	8,10	11,15	14,14	19,23	10,12
		12,16	13,15	29,31.2	15,15	X,Y
		20,23			28.2,29.2	7,8
	16,17	10			8,11	
					2	
ZEAYJV	GlobalFiler™					
		12,15	16,18	11,14	15	11,13
	3sp	8,10	11,15	14	19,23	10,12
		12,16	13,15	29,31.2	15	X,Y
		20,23			28.2,29.2	7,8
	16,17	10			8,11	
					2	
ZG3DKZ	NGM SElect					
		12,15	16,18	11,14	15,15	
	3sp		11,15	14,14	19,23	9,11
		12,16	13,15	29,31.2	15,15	X,Y
		20,23			28.2,29.2	7,8
	16,17					
ZGQC6T	PowerPlex® Fusion (TrueAllele)					
		12,15,17.3	16,17,18,20	10,11,14	15,16,17	11,13
	3sp	8,10,12	11,13,14,15	13,14	19,20,23,24	10,11,12
		12,16	13,14,14.2,15	29,31.2,32.2	11,15	X,Y
		19,20,23	13	5,7,12		7,8,9.3
	15,16,17	10			8,11,12	
ZKU2ND	GlobalFiler™					
		12,15	16,18	11,14	15,15	11,13
	3sp	8,10	11,15	14,14	19,23	10,12
		12,16	13,15	29,31.2	15,15	X,Y
		20,23			28.2,29.2	7,8
	16,17	10			8,11	
					2	
ZMW6YN	GlobalFiler™					
		12,15	16,18	11,14	15,15	11,13
	3sp	8,10	11,15	14,14	19,23	10,12
		12,16	13,15	29,31.2	15,15	X,Y
		20,23			28.2,29.2	7,8
	16,17	10			8,11	
					2	

TABLE 1

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

Item 3sp - STR Results

ZYUZCA	GlobalFiler™ (STRmix)					
	12,15	16,18	11,14	15,15	11,13	
3sp	8,10	11,15	14,14	19,23	10,12	9,11
	12,16	13,15	29,31.2	15,15	X,Y	10,11
	20,23			28.2,29.2	7,8	8,11
	16,17	10			2	

TABLE 1

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

Item 4 - STR Results

29ACNM	GlobalFiler™					
	14,[15],16,[17.3]	[17],[20],21	[10],11,[14]	15,[16],[17]	11,[12]	
4	[8],12	[13],14	13,14	18,19,[20],[24]	11,12	11,12,[13]
	12,13,17	14,[14.2],[15]	30.2,31.2,[32.2]	[11],14,15,17	X,Y	10,11,[12]
	[19],20,22,[23]			14,[20],27.2,30.2	7,[9],[9.3]	8,10,11,[12]
	[15],16,17	11			2	
2A46J7	GlobalFiler™					
	14,15,16,17.3	[17],[20],21	[10],11,[14]	15,[16],[17]	11,[12]	
4	[8],12	[13],14	13,14	18,19,[20],[24]	11,12	11,[12],[13]
	12,13,17	14,[14.2],15	30.2,31.2,[32.2]	11,14,[15],17	X,[Y]	[10],11,[12]
	[19],20,22,23			14,[20],27.2,30.2	7,[9],[9.3]	8,10,11,12
	[15],[16],17	11			2	
2EETJ3	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
2GZXRZ	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
2JTTFU	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
2LN8KX	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
2QBVDZ	PowerPlex® 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				

TABLE 1

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

Item 4 - STR Results

2R3V2U	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	10,11			2	
33XNMQ	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
3BKC2T	PowerPlex® Fusion 6C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20	14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11	20	17		
428KAA	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
4GWW66	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
4MZZQW	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
4N6B6Z	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	

TABLE 1

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

Item 4 - STR Results

4XT2RR	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
64DPZ3	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
67PJJV	Identifiler® Plus					
		17,20,21		15,16,17	11,12	
4	8,12	13,14			11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2		X,Y	10,11,12
	19,20,22,23				7,9,9.3	8,10,11,12
	15,16,17					
6A322Q	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
6ARF9P	Investigator® 24plex (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11				
6BVUWA	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
6JWKWZ	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				

TABLE 1

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

Item 4 - STR Results

6LDEG7	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
6LTX24	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
6NDTKY	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
74QD2U	PowerPlex® Fusion 6C (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20	14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11	20	17		
7AGNBT	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
7GCQD4	(STRMix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
7HQCNQ	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	

TABLE 1

WebCode		Amplification Kits (Probabilistic Genotyping Software)				
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	
Item 4 - STR Results						
7JC79M	PowerPlex® Fusion (TrueAllele)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
7RYN4A	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
8EE2RN	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
8KU88U	GlobalFiler™ IQC					
	14,15,16,17.3	(17),20,21	10,11,(14)	15,(16,17)	11,(12)	
4	(8),12	13,14	13,14	18,19,20,24	11,12	11,12,(13)
	12,13,17	14,14.2,15	30.2,31.2,(32.2)	11,14,15,17	X,(Y)	10,11,(12)
	19,20,22,23			14,20,27.2,30.2	7,9,(9.3)	8,10,11,12
	15,16,17	11			2	
8RZL7P	Investigator® 24plex (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11				
8YZ2VX	PowerPlex® Fusion (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
984XYU	PowerPlex® Fusion 6C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	-
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20	14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11	20	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

9J2BEQ	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
9K4WLQ	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
9TUJZH	PowerPlex® Fusion (TrueAllele)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
9U8W3T	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
9WLF7M	PowerPlex® ESI16					
	14,15,16,17.3	17,[20],21	10,11,14	15,[16],17		
4		[13],14	13,14	18,19,20,[24]		11,[12],13
	12,[13],17	14,[14.2],15	[30.2],31.2,[32.2]	11,14,[15],17	X,[Y]	
	19,20,22,23				7,[9],9.3	
	[15,16],17					
9XE927	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
9XLUAF	GlobalFiler™					
	14,[15],16,[17.3]	[17],[20],21	[10],11,[14]	15,[16],[17]	11,[12]	
4	[8],12	[13],14	13,14	18,19,[20],24	11,12	11,[12],[13]
	12,13,17	14,[14.2],15	30.2,31.2,[32.2]	11,14,[15],17	X,[Y]	[10],11,[12]
	19,20,22,[23]			14,[20],[27.2],30.2	7,[9],[9.3]	[8],10,11,[12]
	[15],16,17	11			2	

TABLE 1

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

Item 4 - STR Results

A349UR	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
A682M6	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
AT6LLG	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
AWWHRL	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
B98CH6	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
BBABTX	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
BCNW3Y	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	

TABLE 1

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

Item 4 - STR Results

BT2QAN	Identifiler® Plus					
		17,20,21		15,16,17	11,12	
4		8,12	13,14		11,12	11,12,13
		12,13,17	14,14.2,15	30.2,31.2,32.2	X,Y	10,11,12
		19,20,22,23			7,9,9.3	8,10,11,12
		15,16,17				
BV84XG	PowerPlex® Fusion					
		14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12
4		8,12	13,14	13,14	18,19,20,24	11,12
		12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y
		19,20,22,23	10,11,13	5,7,16,20		7,9,9.3
		15,16,17	11			8,10,11,12
C42FQP	PowerPlex® Fusion 6C					
		14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12
4		8,12	13,14	13,14	18,19,20,24	11,12
		12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y
		19,20,22,23	10,11,13	5,7,16,20	14,20,27.2,30.2	7,9,9.3
		15,16,17	11	20	17	8,10,11,12
C4HR9U	GlobalFiler™ (STRmix)					
		14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12
4		8,12	13,14	13,14	18,19,20,24	11,12
		12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y
		19,20,22,23			14,20,27.2,30.2	7,9,9.3
		15,16,17	11			8,10,11,12
C89NEZ	GlobalFiler™ (STRmix)					
		14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12
4		8,12	13,14	13,14	18,19,20,24	11,12
		12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y
		19,20,22,23			14,20,27.2,30.2	7,9,9.3
		15,16,17	11			8,10,11,12
C8MBQM	PowerPlex® Fusion 5C					
		14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12
4		8,12	13,14	13,14	18,19,20,24	11,12
		12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y
		19,20,22,23	10,11,13	5,7,16,20		7,9,9.3
		15,16,17	11			8,10,11,12
C8ZRMP	GlobalFiler™ PCR Amplification Kit					
		14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12
4		8,12	13,14	13,14	18,19,20,24	11,12
		12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y
		19,20,22,23			14,20,27.2,30.2	7,9,9.3
		15,16,17	11			8,10,11,12

TABLE 1

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

CABMGU	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
CK3H9U	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
CNKHLN	GlobalFiler™					
	14,15,16,17.3	[17],[20],21	[10],11,[14]	15,[16],[17]	11,[12]	
4	[8],12	[13],14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,[Y]	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
CUF89M	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
D36HVN	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
D87DXM	PowerPlex® (aseSolver, LRMixStudio, LabRetriever, DNAMView, EFM)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20	14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11	20	17		
DGLAKU	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				

TABLE 1

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

Item 4 - STR Results

DKRT2M	PowerPlex® Fusion 6C (STRmix v2.6.3)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20	14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11	20	17		
DNQ4XM	PowerPlex® Fusion 6C (STRmix v2.6.3)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20	14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11	20	17		
DPFH6L	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	NA
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	NA	NA	14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11	NA	NA	2	
DQ8EUE	PowerPlex® Fusion (TrueAllele)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
E3Q6AN	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
EAL9CY	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
EGEMFL	PowerPlex® 21					
	14,15,16,17.3	17,20,21		15,16,17	11,12	11,18,19
4	8,12	13,14		18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2		X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17					

TABLE 1

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

Item 4 - STR Results

EJBWAM	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11		2		
EKYBGL	GlobalFiler™ (STRmix)					
	14,15,16,17.3,Q	16,17,19,20,21,Q	9,10,11,13,14,Q	15,16,17,Q	10,11,12,Q	
	4	8,11,12,Q	12,13,14,Q	12,13,14,Q	18,19,20,23,24,Q	10,11,12,Q,13,Q
	11,12,13,17,Q	13,14,14.2,15,Q	30.2,31.2,32.2,Q	11,14,15,16,17,Q	X,Y	10,11,12,Q
	18,19,20,21,22,23,Q			14,19,20,26.2,27.2,30.2,Q	7,9,9.3,Q	8,10,11,12,Q
	15,16,17,Q	11		2		
EMB6DX	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11		2		
EZT32M	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
F6G2TM	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
FGGP4G	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11		2		
FLWXRF	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				

TABLE 1

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

Item 4 - STR Results

FWQGPA	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
GAVYZA	PowerPlex® Fusion (TrueAllele)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
GJHZGJ	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	N/A
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	N/A	N/A	14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11	N/A	N/A	2	
GQUCAB	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
GU7L7E	PowerPlex® Fusion 6C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20	14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11	20	17		
GVBJXB	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
H7M7JG	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	N/A
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	N/A	N/A	14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11	N/A	N/A	2	

TABLE 1

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

Item 4 - STR Results

HCED3P	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
HP3FKG	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
HPECPL	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
HUA7MM	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
HX9KBD	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
HYPEBM	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
J9DLQU	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	

TABLE 1

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

Item 4 - STR Results

JEHHCE	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
JN6PR8	PowerPlex® Fusion (TrueAllele)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
JR8H3G	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11		2		
JRTVQU	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11		2		
K6XE3U	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11		2		
K78GQE	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
KGMB4T	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11		2		

TABLE 1

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

Item 4 - STR Results

KJ6XWF	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
KURTER	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11		2		
LFX2QH	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
LRBYVL	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	[10],11,[14]	15,16,[17]	11,[12]	
	4	[8],12	[13],14	13,14	18,19,[20,24]	11,12,13
	12,[13],17	14,[14.2,15]	30.2,31.2,[32.2]	11,14,15,17	X,[Y]	[10],11,[12]
	19,20,22,23			14,20,[27.2],30.2	7,[9,9.3]	8,10,11,12
	[15,16],17	11		2		
M4PA7H	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2,31.2	7,9,9.3	8,10,11,12
	15,16,17	11		2		
M9HH7H	PowerPlex® Fusion 5C (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
MJLNFB	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11		2		

TABLE 1

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

Item 4 - STR Results

MQXPHE	PowerPlex® Fusion (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
MTT6BM	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
MUE8KH	PowerPlex® 21 (STRmix)					
	14,15,16,17.3	17,20,21		15,16,17	11,12	11,18,19
4	8,12	13,14		18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2		X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17					
MX73HA	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
NKL2GH	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
NZQGKP	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
P7QTH8	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	

TABLE 1

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

Item 4 - STR Results

PGLCDG	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
PHKA6M	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
PTFT3G	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
PX73CF	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
Q2UN39	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
QR2LGZ	PowerPlex® Fusion (TrueAllele)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
QZR4V9	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	

TABLE 1

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

Item 4 - STR Results

R6G688		17,20,21		15,16,17	11,11	
4	8,12	13,14			11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2		X,Y	10,11,12
	19,20,22,23				7,9,9.3	8,10,11,12
	15,16,17					
R8G2EF	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
R99X4A	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
RK3B2L	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
RQLLXB	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	NA
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	NA	NA	14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11	NA	NA	2	
RRR97A	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
RVCW8A	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	

TABLE 1

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

Item 4 - STR Results

RVU37Y	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
T9GPXC	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
TFM3DL	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
TG2PN9	PowerPlex® Fusion 5C, Verifiler+					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	11,18,19
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11			2	
TN9ATE	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
TQ2FWC	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
TWHX7D	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	-
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20	-	7,9,9.3	8,10,11,12
	15,16,17	11	-	-	-	

TABLE 1

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

Item 4 - STR Results

TX62K6	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
U33KC3	Investigator® 24plex (STRMix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11				
UAHLG7	PowerPlex® Fusion 6C (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20	14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11	20	17		
UBJWUA	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
UEATZE	GlobalFiler™ (STRmix v2.8)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
UHMTW7	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	-----
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	-----	-----	14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11	-----	-----	2	
UQYV2V	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	

TABLE 1

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

Item 4 - STR Results

VM99JT	GlobalFiler™					
	14,[15],16,[17.3]	[17],[20],21	[10],11,[14]	15,[16],[17]	11,[12]	
4	[8],12	[13],14	[13],14	18,19,[20],[24]	11,12	11,12,[13]
	12,13,17	14,[14.2],15	30.2,31.2,[32.2]	[11],14,[15],17	X,Y	10,11,[12]
	[19],20,22,[23]			14,[20],27.2,30.2	7,[9],[9.3]	8,10,11,12
	15,16,17	11			2	
VVK8D4	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
VZVH4C	GlobalFiler™ (STRmix)					
	14,15,16,17.3	[17],20,21	[10],11,[14]	15,[16],[17]	11,[12]	
4	[8],12	[13],14	13,14	18,19,20,24	11,12	11,[12],[13]
	12,[13],[17]	14,[14.2],[15]	[30.2],31.2,[32.2]	11,14,15,17	X,[Y]	10,11,[12]
	19,20,22,23			14,20,27.2,30.2	7,[9],[9.3]	8,10,11,[12]
	[15],[16],17	11			2	
W3DYY3	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	NA
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	NA	NA	14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11	NA	NA	2	
WAHXAR	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
WEVFRA	PowerPlex® Fusion 5c					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
WGQWKG	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	

TABLE 1

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

Item 4 - STR Results

WHTZVT	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
WLG7VF	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
WQV433	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
X8QYVU	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
XLQXJQ	GlobalFiler™					
	14,[15],16,17.3	[17],[20],21	[10],11,[14]	15,[16],[17]	11,[12]	
	4	[8],12	[13],14	13,14	18,19,20,24	11,12,13
	12,13,17	14,[14.2],[15]	30.2,31.2,[32.2]	11,14,[15],17	X,[Y]	10,11,[12]
	[19],20,22,[23]			14,20,27.2,30.2	7,[9],[9.3]	8,10,11,12
	[15],[16],17	11			2	
XX2BY7	PowerPlex® 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
XYGRBA	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	

TABLE 1

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

Item 4 - STR Results

Y27F9W	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
Y4NKLA	PowerPlex® Fusion 5C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
Y6V3J6	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
YJ77PY	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
YQ7PPA	GlobalFiler™ (STRmix™)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
YXGUH4	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
ZE2VX7	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13,Q
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12,Q
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	

TABLE 1

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

Item 4 - STR Results

ZEAYJV	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11		2		
ZGQC6T	PowerPlex® Fusion					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20		7,9,9.3	8,10,11,12
	15,16,17	11				
ZKU2ND	GlobalFiler™					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11		2		
ZMW6YN	GlobalFiler™					
	14,15,16,17.3	[17],[20],21	[10],11,[14]	15,[16],[17]	11,[12]	
	4	[8],12	[13],14	13,14	18,19,20,24	11,12,13
	12,[13],[17]	14,[14.2],[15]	[30.2],31.2,[32.2]	11,14,15,17	X,[Y]	[10],11,[12]
	19,20,22,23			14,20,27.2,30.2	7,[9],[9.3]	8,10,11,12
	[15],16,17	11		2		
ZTQWNW	PowerPlex® Fusion 6C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20	14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11	20	17		
ZWP9KW	PowerPlex® Fusion 6C					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	10,11,13	5,7,16,20	14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11	20	17		
ZYUZCA	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
	4	8,12	13,14	13,14	18,19,20,24	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11		2		

TABLE 1

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

Item 4e - STR Results

7T7736	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4e	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23	--	--	14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11	--	--	2	
FWT2LQ	GlobalFiler™ (STRmix v 2.9.1)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4e	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
VQXEJF	GlobalFiler™ (STRmix)					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17	11,12	
4e	8,12	13,14	13,14	18,19,20,24	11,12	11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	10,11,12
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	8,10,11,12
	15,16,17	11			2	
ZG3DKZ	NGM SElect					
	14,15,16,17.3	17,20,21	10,11,14	15,16,17		
4e		13,14	13,14	18,19,20,24		11,12,13
	12,13,17	14,14.2,15	30.2,31.2,32.2	11,14,15,17	X,Y	
	19,20,22,23			14,20,27.2,30.2	7,9,9.3	
	15,16,17					

TABLE 1

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

Item 4sp - STR Results

7T7736 GlobalFiler™ (STRmix)

4sp



FWT2LQ GlobalFiler™ (STRmix v 2.9.1)

4sp



VQXEJF GlobalFiler™ (STRmix)

4sp



ZG3DKZ NGM SElect

4sp



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 2 - YSTR Results

2A46J7	Yfiler™								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
2	37	10		17	15	19	22		11
2JTTFU	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
2	37	10		17	15	19	22		11
2LN8KX	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
2	37	10		17	15	19	22		11
2QBVDZ	Yfiler™								
		15	13,14	12	28	22	10	11	12
	16	11	11	22		16	15		21
2							22		11
2R3V2U	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
2	37	10		17	15	19	22		11
33XNMQ	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
2	37	10		17	15	19	22		11
3BK2T	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
	16	11	11	22		16	15		21
2		10	12	17	15		22	12	11
428KAA	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
2	37	10		17	15	19	22		11
4KV9Z6	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
2	37	10		17	15	19	22		11
4MZZQW	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
2	37	10		17	15	19	22		11
4N6B6Z	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
2	37	10		17	15	19	22		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

4XT2RR	Yfiler™ Plus Direct Mode								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
6A322Q	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
6ARF9P	Yfiler™								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		
							22		11
6BVUWA	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
6LDEG7	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
6LTX24	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
7AGNBT	Yfiler™								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		
							22		11
7HQCNQ	Yfiler™								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		
							22		11
7RYN4A	Yfiler™ Plus Direct Mode								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
8KU88U	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
8RZL7P	Yfiler™								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		
							22		11
9K4WLQ	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		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									
9XE927	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
A349UR	Yfiler™								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		
							22		11
A682M6	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
AT6LLG	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
B98CH6	Yfiler™ Plus Direct Mode								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
C42FQP	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
C4HR9U	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
C89NEZ	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
C8MBQM	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
C8ZRMP	Yfiler™ Plus Amplification Kit								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
CK3H9U	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
CUF89M									
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		
							22		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									
D87DXM	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
DPFH6L	Yfiler™								
	NA	15	13,14	12	28	22	10	11	12
2	16	11	11	22	NA	16	15	NA	NA
	NA	NA	NA	NA	NA	NA	22	NA	11
E3Q6AN		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
EAL9CY	Yfiler™ Plus Direct Mode								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
EGEMFL	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
EJBWAM	Yfiler™								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		11
							22		11
EMB6DX	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
EZT32M	Yfiler™								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		11
							22		11
FLWXRF	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
FWQGPA	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
GJHZGJ	Yfiler™								
	N/A	15	13,14	12	28	22	10	11	12
2	16	11	11	22	N/A	16	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
GU7L7E	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		21
		10	12	17	15		22	12	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									
H7M7JG	Yfiler™								
	N/A	15	13,14	12	28	22	10	11	12
2	16	11	11	22	N/A	16	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
HCED3P	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
HP3FKG	Yfiler™								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		
							22		11
HX9KBD	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
J9DLQU	Yfiler™ Plus (Direct Mode)								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
JEHHCE	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
JR8H3G	Yfiler™								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		
							22		11
JRTVQU	Yfiler™ Plus Direct Mode								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
K6XE3U	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
K78GQE	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
KGMB4T	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
KURTER	Yfiler™ Plus Direct Mode								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		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									
LRBYVL	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
M4PA7H	Yfiler™								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
MJLNFB	Yfiler™								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		
							22		11
NM2HTM	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
NZQGKP	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
PDQF8L	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
PHKA6M	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
PTFT3G	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
Q2UN39	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
QZR4V9	Yfiler™								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		
							22		11
R8G2EF	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
R99X4A	Yfiler™								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		
							22		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

RK3B2L	Yfiler™ Plus Direct mode								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
RQLLXB	Yfiler™								
	NA	15	13,14	12	28	22	10	11	12
2	16	11	11	22	NA	16	15	NA	NA
	NA	NA	NA	NA	NA	NA	22	NA	11
RRR97A	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
RVCW8A	Yfiler™								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		
							22		11
TFM3DL	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
TG2PN9	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
TQ2FWC	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
TWHX7D	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
U33KC3	Yfiler™								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		
							22		11
UEATZE	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
UQYV2V	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
VWK8D4	Yfiler™								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		
							22		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									
VZVH4C	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
W3DYY3	Yfiler™								
	NA	15	13,14	12	28	22	10	11	12
2	16	11	11	22	NA	16	15	NA	NA
	NA	NA	NA	NA	NA	NA	22	NA	11
WAHXAR	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
WGQWKG	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
WLG7VF	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
WQV433	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
XYGRBA	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
Y27F9W	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
Y6V3J6	Yfiler™								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		
							22		11
YJ77PY	Yfiler™								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		
							22		11
YQ7PPA	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
ZEAYJV	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		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

ZG3DKZ	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
2	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
ZKU2ND	Yfiler™ Plus (Direct mode)								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
ZMW6YN	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
2	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		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 3 - YSTR Results

3BKC2T	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
3	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
4N6B6Z	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
D87DXM	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
E3Q6AN		15	13,14	12	28	22	10	11	12
3	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
EGEMFL	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
GU7L7E	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
3	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
TG2PN9	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
3	16	11	11	22		16	15		21
		10	12	17	15		22	12	11

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3e - YSTR Results									
2A46J7	Yfiler™								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
2JTTFU	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
2LN8KX	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
2QBVDZ	Yfiler™								
		15	13,14	12	28	22	10	11	12
3e	16	11	11	22		16	15		21
							22		11
2R3V2U	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
33XNMQ	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
428KAA	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
4KV9Z6	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
4MZZQW	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
4XT2RR	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
6A322Q	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
6ARF9P	Yfiler™								
		15	13,14	12	28	22	10	11	12
3e	16	11	11	22		16	15		21
							22		11

TABLE 2

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

Item 3e - YSTR Results

6BVUWA	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
3e	37	10		17	15	19	22		11
6LDEG7	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
	16	11	11	22		16	15		21
3e		10	12	17	15		22	12	11
6LTX24	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
3e	37	10		17	15	19	22		11
7AGNBT	Yfiler™								
		15	13,14	12	28	22	10	11	12
	16	11	11	22		16	15		
3e							22		11
7HQCNQ	Yfiler™								
		15	13,14	12	28	22	10	11	12
	16	11	11	22		16	15		
3e							22		11
7RYN4A	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
3e	37	10		17	15	19	22		11
8KU88U	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
3e	37	10		17	15	19	22		11
8RZL7P	Yfiler™								
		15	13,14	12	28	22	10	11	12
	16	11	11	22		16	15		
3e							22		11
9K4WLQ	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
3e	37	10		17	15	19	22		11
A349UR	Yfiler™								
		15	13,14	12	28	22	10	11	12
	16	11	11	22		16	15		
3e							22		11
A682M6	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
3e	37	10		17	15	19	22		11
AT6LLG	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
3e	37	10		17	15	19	22		11

TABLE 2

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

Item 3e - YSTR Results

B98CH6	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
3e	37	10		17	15	19	22		11
C42FQP	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
3e	37	10		17	15	19	22		11
C4HR9U	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
3e	37	10		17	15	19	22		11
C89NEZ	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
3e	37	10		17	15	19	22		11
C8MBQM	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
3e	37	10		17	15	19	22		11
C8ZRMP	Yfiler™ Plus Amplification Kit								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
3e	37	10		17	15	19	22		11
CK3H9U	PowerPlex® Y 23								
				12		22	10		12
	3e		11	22			15		21
		10	12			22			
CUF89M		15	13,14	12	28	22	10	11	12
	3e	16	11	11	22	16	15		
							22		11
DPFH6L	Yfiler™								
	NA	15	13,14	12	28	22	10	11	12
	16	11	11	22	NA	16	15	NA	NA
3e	NA	NA	NA	NA	NA	NA	22	NA	11
EAL9CY	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
3e	37	10		17	15	19	22		11
EJBWAM	Yfiler™								
		15	13,14	12	28	22	10	11	12
	3e	16	11	11	22	16	15		
						22			11
EMB6DX	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	16	11	11	22	30	16	15	9	21
3e	37	10		17	15	19	22		11

TABLE 2

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

Item 3e - YSTR Results

EZT32M	Yfiler™								
		15	13,14	12	28	22	10	11	12
	3e	16	11	11	22	16	15	22	11
FLWXRF	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	3e	16	11	11	22	30	16	15	9
	37	10		17	15	19	22		11
FWQGPA	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	3e	16	11	11	22	30	16	15	9
	37	10		17	15	19	22		11
GJHZGJ	Yfiler™								
	N/A	15	13,14	12	28	22	10	11	12
	3e	16	11	11	22	N/A	16	15	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
H7M7JG	Yfiler™								
	N/A	15	13,14	12	28	22	10	11	12
	3e	16	11	11	22	N/A	16	15	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
HCED3P	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	3e	16	11	11	22	30	16	15	9
	37	10		17	15	19	22		11
HP3FKG	Yfiler™								
		15	13,14	12	28	22	10	11	12
	3e	16	11	11	22	16	15	22	11
									11
HX9KBD	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	3e	16	11	11	22	30	16	15	9
	37	10		17	15	19	22		11
J9DLQU	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	3e	16	11	11	22	30	16	15	9
	37	10		17	15	19	22		11
JEHHCE	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	3e	16	11	11	22	30	16	15	9
	37	10		17	15	19	22		11
JR8H3G	Yfiler™								
		15	13,14	12	28	22	10	11	12
	3e	16	11	11	22	16	15	22	11
									11
JRTVQU	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	3e	16	11	11	22	30	16	15	9
	37	10		17	15	19	22		11

TABLE 2

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

Item 3e - YSTR Results

K6XE3U	PowerPlex® Y 23								
3e	[Redacted]								
K78GQE	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
KGMB4T	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
KURTER	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
LRBYVL	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
M4PA7H	Yfiler™								
3e	[Redacted]								
MJLNFB	Yfiler™								
		15	13,14	12	28	22	10	11	12
3e	16	11	11	22		16	15		
							22		11
NM2HTM	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
3e	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
NZQGKP	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
PDQF8L	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
3e	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
PHKA6M	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
PTFT3G	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3e - YSTR Results									
Q2UN39	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
QZR4V9	Yfiler™								
		15	13,14	12	28	22	10	11	12
3e	16	11	11	22		16	15		
							22		11
R8G2EF	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
R99X4A	Yfiler™								
		15	13,14	12	28	22	10	11	12
3e	16	11	11	22		16	15		
							22		11
RK3B2L	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
RQLLXB	Yfiler™								
	NA	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	NA	16	15	NA	NA
	NA	NA	NA	NA	NA	NA	22	NA	11
RRR97A	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
3e	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
RVCW8A	Yfiler™								
		15	13,14	12	28	22	10	11	12
3e	16	11	11	22		16	15		
							22		11
TQ2FWC	Yfiler™ Plus								
3e									
TWHX7D	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
3e	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
U33KC3	Yfiler™								
		15	13,14	12	28	22	10	11	12
3e	16	11	11	22		16	15		
							22		11
UEATZE	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3e - YSTR Results									
UQYV2V	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
WK8D4	Yfiler™								
		15	13,14	12	28	22	10	11	12
3e	16	11	11	22		16	15		
							22		11
VZVH4C	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
W3DYY3	Yfiler™								
	NA	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	NA	16	15	NA	NA
	NA	NA	NA	NA	NA	NA	22	NA	11
WAHXAR	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
WGQWKG	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
WLG7VF	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
WQV433	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
XYGRBA	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
Y27F9W	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
Y6V3J6	Yfiler™								
		15	13,14	12	28	22	10	11	12
3e	16	11	11	22		16	15		
							22		11
YJ77PY	Yfiler™								
		15	13,14	12	28	22	10	11	12
3e	16	11	11	22		16	15		
							22		11

TABLE 2

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

Item 3e - YSTR Results

YQ7PPA	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
ZEAYJV	Yfiler™ Plus								
3e									
ZG3DKZ	PowerPlex® Y 23								
3e									
ZKU2ND	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
ZMW6YN	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3e	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		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 3sp - YSTR Results

2A46J7	Yfiler™								
	38,39	15	13,14	12	28	22	10	11	12
	3sp	16	11	11	22	30	16	15	9
	37	10		17	15	19	22		11
2JTTFU	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	3sp	16	11	11	22	30	16	15	9
	37	10		17	15	19	22		11
2LN8KX	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	3sp	16	11	11	22	30	16	15	9
	37	10		17	15	19	22		11
2QBVDZ	Yfiler™								
		15	13,14	12	28	22	10	11	12
	3sp	16	11	11	22	16	15		
						22		11	12
2R3V2U	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	3sp	16	11	11	22	30	16	15	9
	37	10		17	15	19	22		11
33XNMQ	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	3sp	16	11	11	22	30	16	15	9
	37	10		17	15	19	22		11
428KAA	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	3sp	16	11	11	22	30	16	15	9
	37	10		17	15	19	22		11
4KV9Z6	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	3sp	16	11	11	22	30	16	15	9
	37	10		17	15	19	22		11
4MZZQW	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	3sp	16	11	11	22	30	16	15	9
	37	10		17	15	19	22		11
4XT2RR	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	3sp	16	11	11	22	30	16	15	9
	37	10		17	15	19	22		11
6A322Q	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
	3sp	16	11	11	22	30	16	15	9
	37	10		17	15	19	22		11
6ARF9P	Yfiler™								
		15	13,14	12	28	22	10	11	12
	3sp	16	11	11	22	16	15		
						22		11	12

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3sp - YSTR Results									
6BVUWA	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
6LDEG7	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
6LTX24	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
7AGNBT	Yfiler™								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		
							22		11
7HQCNQ	Yfiler™								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		
							22		11
7RYN4A	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
8KU88U	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
8RZL7P	Yfiler™								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		
							22		11
9K4WLQ	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
A349UR	Yfiler™								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		
							22		11
A682M6	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
AT6LLG	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3sp - YSTR Results									
B98CH6	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
C42FQP	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
C4HR9U	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
C89NEZ	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
C8MBQM	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
C8ZRMP	Yfiler™ Plus Amplification Kit								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
CK3H9U	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
CUF89M									
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		
							22		11
DPFH6L	Yfiler™								
	NA	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	NA	16	15	NA	NA
	NA	NA	NA	NA	NA	NA	22	NA	11
EAL9CY	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
EJBWAM	Yfiler™								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		
							22		11
EMB6DX	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3sp - YSTR Results									
EZT32M	Yfiler™								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		11
							22		
FLWXRF	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
FWQGPA	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
GJHZGJ	Yfiler™								
	N/A	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	N/A	16	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
H7M7JG	Yfiler™								
	N/A	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	N/A	16	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
HCED3P	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
HP3FKG	Yfiler™								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		11
							22		
HX9KBD	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
J9DLQU	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
JEHHCE	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
JR8H3G	Yfiler™								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		11
							22		
JRTVQU	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		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 3sp - YSTR Results									
K6XE3U	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
K78GQE	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
KGMB4T	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
KURTER	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
LRBYVL	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
M4PA7H	Yfiler™								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
MJLNFB	Yfiler™								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		
							22		11
NM2HTM	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
NZQGKP	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
PDQF8L	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
PHKA6M	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
PTFT3G	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		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 3sp - YSTR Results									
Q2UN39	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
QZR4V9	Yfiler™								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		
							22		11
R8G2EF	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
R99X4A	Yfiler™								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		
							22		11
RK3B2L	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
RQLLXB	Yfiler™								
	NA	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	NA	16	15	NA	NA
	NA	NA	NA	NA	NA	NA	22	NA	11
RRR97A	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
RVCW8A	Yfiler™								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		
							22		11
TQ2FWC	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
TWHX7D	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
U33KC3	Yfiler™								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		
							22		11
UEATZE	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		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 3sp - YSTR Results

UQYV2V	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
WK8D4	Yfiler™								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		
							22		11
VZVH4C	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
W3DYY3	Yfiler™								
	NA	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	NA	16	15	NA	NA
	NA	NA	NA	NA	NA	NA	22	NA	11
WAHXAR	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
WGQWKG	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
WLG7VF	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
WQV433	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
XYGRBA	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
Y27F9W	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
Y6V3J6	Yfiler™								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		
							22		11
YJ77PY	Yfiler™								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		
							22		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 3sp - YSTR Results									
YQ7PPA	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
ZEAYJV	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
ZG3DKZ	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	12
3sp	16	11	11	22		16	15		21
		10	12	17	15		22	12	11
ZKU2ND	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11
ZMW6YN	Yfiler™ Plus								
	38,39	15	13,14	12	28	22	10	11	12
3sp	16	11	11	22	30	16	15	9	21
	37	10		17	15	19	22		11

TABLE 2

Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4 - YSTR Results									
2A46J7	Yfiler™								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
2JTTFU	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
2LN8KX	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
2QBVDZ	Yfiler™								
		14	11,15	13	29	23	11	13	13
4	15	12	12	19		16	17		
							23		11
2R3V2U	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
33XNMQ	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
3BKC2T	PowerPlex® Y 23								
		14	11,15	13	29	23	11	13	13
4	15	12	12	19		16	17		23
		12	13	20	17		23	10	11
428KAA	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
4KV9Z6	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
4MZZQW	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
4N6B6Z	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
4XT2RR	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 4 - YSTR Results										
6A322Q	Yfiler™ Plus									
	34,36	14	11,15	13	29	23	11	13	13	
4	15	12	12	19	29	16	17	12	23	
	38	12		20	17	22	23		11	
6ARF9P	Yfiler™									
		14	11,15	13	29	23	11	13	13	
4	15	12	12	19		16	17			
							23		11	
6BVUWA	Yfiler™ Plus									
	34,36	14	11,15	13	29	23	11	13	13	
4	15	12	12	19	29	16	17	12	23	
	38	12		20	17	22	23		11	
6LDEG7	PowerPlex® Y 23									
		14	11,15	13	29	23	11	13	13	
4	15	12	12	19		16	17		23	
		12	13	20	17		23	10	11	
6LTX24	Yfiler™ Plus									
	34,36	14	11,15	13	29	23	11	13	13	
4	15	12	12	19	29	16	17	12	23	
	38	12		20	17	22	23		11	
7AGNBT	Yfiler™									
		14	11,15	13	29	23	11	13	13	
4	15	12	12	19		16	17			
							23		11	
7HQCNQ	Yfiler™									
		14	11,15	13	29	23	11	13	13	
4	15	12	12	19		16	17			
							23		11	
7RYN4A	Yfiler™ Plus									
	34,36	14	11,15	13	29	23	11	13	13	
4	15	12	12	19	29	16	17	12	23	
	38	12		20	17	22	23		11	
8KU88U	Yfiler™ Plus									
	34,36	14	11,15	13	29	23	11	13	13	
4	15	12	12	19	29	16	17	12	23	
	38	12		20	17	22	23		11	
8RZL7P	Yfiler™									
		14	11,15	13	29	23	11	13	13	
4	15	12	12	19		16	17			
							23		11	
9K4WLQ	Yfiler™ Plus									
	34,36	14	11,15	13	29	23	11	13	13	
4	15	12	12	19	29	16	17	12	23	
	38	12		20	17	22	23		11	
9XE927	PowerPlex® Y 23									
		14	11,15	13	29	23	11	13	13	
4	15	12	12	19		16	17		23	
		12	13	20	17		23	10	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 4 - YSTR Results

A349UR	Yfiler™								
		14	11,15	13	29	23	11	13	13
4	15	12	12	19		16	17		
							23		11
A682M6	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
AT6LLG	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
B98CH6	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
C42FQP	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
C4HR9U	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
C89NEZ	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
C8MBQM	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
C8ZRMF	Yfiler™ Plus Amplification Kit								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
CK3H9U	PowerPlex® Y 23								
		14	11,15	13	29	23	11	13	13
4	15	12	12	19		16	17		23
		12	13	20	17		23	10	11
CUF89M									
		14	11,15	13	29	23	11	13	13
4	15	12	12	19		16	17		
							23		11
D87DXM	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		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 4 - YSTR Results

DPFH6L	Yfiler™								
	NA	14	11,15	13	29	23	11	13	13
	4	15	12	12	19	NA	16	17	NA
	NA	NA	NA	NA	NA	NA	23	NA	11
E3Q6AN		14	11,15	13	29	23	11	13	13
	4	15	12	12	19	16	17		23
		12	13	20	17		23	10	11
EAL9CY	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
	4	15	12	12	19	29	16	17	12
	38	12		20	17	22	23		11
EGEMFL	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
	4	15	12	12	19	29	16	17	12
	38	12		20	17	22	23		11
EJBWAM	Yfiler™								
		14	11,15	13	29	23	11	13	13
	4	15	12	12	19		16	17	
							23		11
EMB6DX	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
	4	15	12	12	19	29	16	17	12
	38	12		20	17	22	23		11
EZT32M	Yfiler™								
		14	11,15	13	29	23	11	13	13
	4	15	12	12	19		16	17	
							23		11
FLWXRF	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
	4	15	12	12	19	29	16	17	12
	38	12		20	17	22	23		11
FWQGPA	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
	4	15	12	12	19	29	16	17	12
	38	12		20	17	22	23		11
GJHZGJ	Yfiler™								
	N/A	14	11,15	13	29	23	11	13	13
	4	15	12	12	19	N/A	16	17	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	11
GU7L7E	PowerPlex® Y 23								
		14	11,15	13	29	23	11	13	13
	4	15	12	12	19	16	17		23
	12	13	20	17		23	10	11	
H7M7JG	Yfiler™								
	N/A	14	11,15	13	29	23	11	13	13
	4	15	12	12	19	N/A	16	17	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	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 4 - YSTR Results									
HCED3P	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
HP3FKG	Yfiler™								
		14	11,15	13	29	23	11	13	13
4	15	12	12	19		16	17		
							23		11
HX9KBD	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
J9DLQU	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
JEHHCE	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
JR8H3G	Yfiler™								
		14	11,15	13	29	23	11	13	13
4	15	12	12	19		16	17		
							23		11
JRTVQU	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
K78GQE	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
KGMB4T	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
KURTER	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
LRBYVL	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
M4PA7H	Yfiler™								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		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 4 - YSTR Results

MJLNFB	Yfiler™								
		14	11,15	13	29	23	11	13	13
	4	15	12	12	19	16	17	23	11
NM2HTM	PowerPlex® Y 23								
		14	11,15	13	29	23	11	13	13
	4	15	12	12	19	16	17	23	23
NZQGKP	Yfiler™ Plus								
		14	11,15	13	29	23	11	13	13
	4	15	12	12	19	29	16	17	12
PHKA6M	Yfiler™ Plus								
		14	11,15	13	29	23	11	13	13
	4	15	12	12	19	29	16	17	12
PTFT3G	Yfiler™ Plus								
		14	11,15	13	29	23	11	13	13
	4	15	12	12	19	29	16	17	12
Q2UN39	Yfiler™ Plus								
		14	11,15	13	29	23	11	13	13
	4	15	12	12	19	29	16	17	12
QZR4V9	Yfiler™								
		14	11,15	13	29	23	11	13	13
	4	15	12	12	19	16	17	23	11
R8G2EF	Yfiler™ Plus								
		14	11,15	13	29	23	11	13	13
	4	15	12	12	19	29	16	17	12
R99X4A	Yfiler™								
		14	11,15	13	29	23	11	13	13
	4	15	12	12	19	16	17	23	11
RK3B2L	Yfiler™ Plus								
		14	11,15	13	29	23	11	13	13
	4	15	12	12	19	29	16	17	12
RQLLXB	Yfiler™								
		14	11,15	13	29	23	11	13	13
	4	15	12	12	19	NA	16	17	NA
RRR97A	PowerPlex® Y 23								
		14	11,15	13	29	23	11	13	13
	4	15	12	12	19	16	17	23	23
		12	13	20	17		23	10	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 4 - YSTR Results

RVCW8A	Yfiler™								
		14	11,15	13	29	23	11	13	13
4	15	12	12	19		16	17		
							23		11
TFM3DL	PowerPlex® Y 23								
		14	11,15	13	29	23	11	13	13
4	15	12	12	19		16	17		23
		12	13	20	17		23	10	11
TG2PN9	PowerPlex® Y 23								
		14	11,15	13	29	23	11	13	13
4	15	12	12	19		16	17		23
		12	13	20	17		23	10	11
TQ2FWC	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
TWHX7D	PowerPlex® Y 23								
		14	11,15	13	29	23	11	13	13
4	15	12	12	19		16	17		23
		12	13	20	17		23	10	11
U33KC3	Yfiler™								
		14	11,15	13	29	23	11	13	13
4	15	12	12	19		16	17		
							23		11
UEATZE	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
UQYV2V	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
WVK8D4	Yfiler™								
		14	11,15	13	29	23	11	13	13
4	15	12	12	19		16	17		
							23		11
VZVH4C	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		11
W3DYY3	Yfiler™								
	NA	14	11,15	13	29	23	11	13	13
4	15	12	12	19	NA	16	17	NA	NA
	NA	NA	NA	NA	NA	NA	23	NA	11
WAHXAR	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
4	15	12	12	19	29	16	17	12	23
	38	12		20	17	22	23		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 4 - YSTR Results

WGQWKG	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
	15	12	12	19	29	16	17	12	23
4	38	12		20	17	22	23		11
WLG7VF	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
	15	12	12	19	29	16	17	12	23
4	38	12		20	17	22	23		11
WQV433	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
	15	12	12	19	29	16	17	12	23
4	38	12		20	17	22	23		11
XYGRBA	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
	15	12	12	19	29	16	17	12	23
4	38	12		20	17	22	23		11
Y27F9W	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
	15	12	12	19	29	16	17	12	23
4	38	12		20	17	22	23		11
Y6V3J6	Yfiler™								
		14	11,15	13	29	23	11	13	13
	15	12	12	19		16	17		23
4									11
YJ77PY	Yfiler™								
		14	11,15	13	29	23	11	13	13
	15	12	12	19		16	17		23
4									11
YQ7PPA	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
	15	12	12	19	29	16	17	12	23
4	38	12		20	17	22	23		11
ZEAYJV	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
	15	12	12	19	29	16	17	12	23
4	38	12		20	17	22	23		11
ZKU2ND	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
	15	12	12	19	29	16	17	12	23
4	38	12		20	17	22	23		11
ZMW6YN	Yfiler™ Plus								
	34,36	14	11,15	13	29	23	11	13	13
	15	12	12	19	29	16	17	12	23
4	38	12		20	17	22	23		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 4e - YSTR Results

PDQF8L	PowerPlex® Y 23								
		14	11,15	13	29	23	11	13	13
4e	15	12	12	19		16	17		23
		12	13	20	17		23	10	11
ZG3DKZ	PowerPlex® Y 23								
		14	11,15	13	29	23	11	13	13
4e	15	12	12	19		16	17		23
		12	13	20	17		23	10	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 4sp - YSTR Results

PDQF8L	PowerPlex® Y 23								
		14,15	11,13,14,15	--	--	22,23	10,11	11,13	12,13
4sp	15,16	12	12	19,22		16	15,17		21,23
		10,12	12,13	17,20	15,17		22,23	10,12	11
ZG3DKZ	PowerPlex® Y 23								
4sp									

Additional DNA Results

TABLE 3

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

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

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
29ACNM	Yes	Yes	Yes	No	6BVUWA	Yes	Yes	Yes	No
2A46J7	Yes	Yes	Yes	No	6JWKWZ	Yes	Yes	Yes	No
2EETJ3	Yes	Yes	Yes	No	6LDEG7	Yes	Yes	Yes	No
2GZXRZ	Yes	Yes	Yes	No	6LTX24	Yes	Yes	Yes	No
2JTTFU	Yes	Yes	Yes	No	6NDTKY	Yes	Yes	Yes	No
2LN8KX	Yes	Yes	Yes	No	74QD2U	Yes	Yes	Yes	No
2QBYDZ	Yes	Yes	Yes	No	7AGNBT	Yes	Yes	Yes	No
2R3V2U	Yes	Yes	Yes	No	7GCQD4	Yes	Yes	Yes	No
33XNMQ	Yes	Yes	Yes	No	7HQCNQ	Yes	Yes	Yes	No
3BKC2T	Yes	Yes	Yes	No	7JC79M	Yes	Yes	Yes	No
428KAA	Yes	Yes	Yes	No	7RYN4A	Yes	Yes	Yes	No
4GWW66	Yes	Yes	Yes	No	7T7736	Yes	Yes	Yes	No
4KV9Z6	No Interp	No Interp	Yes	No	8EE2RN	Yes	Yes	Yes	No
4MZZQW	Yes	Yes	Yes	No	8KU88U	Yes	Yes	Yes	No
4N6B6Z	No	Yes	Yes	No	8RZL7P	Yes	Yes	Yes	No
4XT2RR	Yes	Yes	Yes	No	8YZ2VX	Yes	Yes	Yes	No
64DPZ3	Yes	Yes	Yes	No	984XYU	Yes	Yes	Yes	No
67PJJV	Yes	Yes	Yes	No	9J2BEQ	Yes	Yes	Yes	No
6A322Q	Yes	Yes	Yes	No	9K4WLQ	Yes	Yes	Yes	No
6ARF9P	Yes	Yes	Yes	No	9TUJZH	Yes	Yes	Yes	No

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
9U8W3T	Yes	Yes	Yes	No	CUF89M	Yes	Yes	Yes	No
9WLF7M	Yes	Yes	Yes	No	D36HVN	Yes	Yes	Yes	No
9XE927	Yes	Yes	Yes	No	D87DXM	Yes	Yes	Yes	No
9XLUAF	Yes	Yes	Yes	No	DGLAKU	Yes	Yes	Yes	No
A349UR	Yes	Yes	Yes	No	DKRT2M	Yes	Yes	Yes	No
A682M6	Yes	Yes	Yes	No	DNQ4XM	Yes	Yes	Yes	No
AT6LLG	Yes	Yes	Yes	No	DPFH6L	Yes	Yes	Yes	No
AWWHRL	Yes	Yes	Yes	No	DQ8EUE	Yes	Yes	Yes	No
B98CH6	Yes	Yes	Yes	No	E3Q6AN	Yes	Yes	Yes	No
BBABTX	Yes	Yes	Yes	No	EAL9CY	Yes	Yes	Yes	No
BCNW3Y	Yes	Yes	Yes	No	EGEMFL	Yes	Yes	Yes	No
BT2QAN	Yes	Yes	Yes	No	EJBWAM	Yes	Yes	Yes	No
BV84XG	Yes	Yes	Yes	No	EKYBGL	Yes	Yes	Yes	Inc
C42FQP	Yes	Yes	Yes	No	EMB6DX	Yes	Yes	Yes	No
C4HR9U	Yes	Yes	Yes	No	EZT32M	Yes	Yes	Yes	No
C89NEZ	Yes	Yes	Yes	No	F6G2TM	Yes	Yes	Yes	No
C8MBQM	Yes	Yes	Yes	No	FGGP4G	Yes	Yes	Yes	No
C8ZRMP	Yes	Yes	Yes	No	FLWXRF	Yes	Yes	Yes	No
CABMGU	Yes	Yes	Yes	No	FWQGPA	Yes	Yes	Yes	No
CK3H9U	Yes	Yes	Yes	No	FWT2LQ	Yes	Yes	Yes	No
CNKHLN	Yes	Yes	Yes	No	GAVYZA	Yes	Yes	Yes	No

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
GJHZGJ	Yes	Yes	Yes	No	LFX2QH	Yes	Yes	Yes	No
GQUCAB	Yes	Yes	Yes	No	LRBYVL	Yes	Yes	Yes	No
GU7L7E	Yes	Yes	Yes	No	M4PA7H	Yes	Yes	Yes	No
GVBXJB	Yes	Yes	Yes	No	M9HH7H	Yes	Yes	Yes	No
H7M7JG	Yes	Yes	Yes	No	MJLNFB	Yes	Yes	Yes	No
HCED3P	Yes	Yes	Yes	No	MQXPHE	Yes	Yes	Yes	No
HP3FKG	Yes	Yes	Yes	No	MTT6BM	Yes	Yes	Yes	No
HPECPL	Yes	Yes	Yes	No	MUE8KH	Yes	Yes	Yes	No
HUA7MM	Yes	Yes	Yes	No	MX73HA	Yes	Yes	Yes	No
HX9KBD	Yes	Yes	Yes	No	NKL2GH	Yes	Yes	Yes	No
HYPEBM	Yes	Yes	Yes	No	NM2HTM	No Interp	No Interp	Yes	No
J9DLQU	Yes	Yes	Yes	No	NZQGKP	Yes	Yes	Yes	No
JEHHCE	Yes	Yes	Yes	No	P7QTH8	Yes	Yes	Yes	No
JN6PR8	Yes	Yes	Yes	No	PDQF8L	No Interp	No Interp	Yes	Inc
JR8H3G	Yes	Yes	Yes	No	PGLCDG	Yes	Yes	Yes	No
JRTVQU	Yes	Yes	Yes	No	PHKA6M	Yes	Yes	Yes	No
K6XE3U	Yes	Yes	Yes	No	PTFT3G	Yes	Yes	Yes	No
K78GQE	Yes	Yes	Yes	No	PX73CF	Yes	Yes	Yes	No
KGMB4T	Yes	Yes	Yes	No	Q2UN39	Yes	Yes	Yes	No
KJ6XWF	Yes	Yes	Yes	No	QR2LGZ	Yes	Yes	Yes	No
KURTER	Yes	Yes	Yes	No	QZR4V9	Yes	Yes	Yes	No

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
R6G688	Yes	Yes	Yes	No	VM99JT	Yes	Yes	Yes	No
R8G2EF	Yes	Yes	Yes	No	VQXEJF	Yes	Yes	Yes	No
R99X4A	Yes	Yes	Yes	No	WK8D4	Yes	Yes	Yes	No
RK3B2L	Yes	Yes	Yes	No	VZVH4C	Yes	Yes	Yes	No
RQLLXB	Yes	Yes	Yes	No	W3DYY3	Yes	Yes	Yes	No
RRR97A	Yes	Yes	Yes	No	WAHXAR	Yes	Yes	Yes	No
RVCW8A	Yes	Yes	Yes	No	WEVFRA	Yes	Yes	Yes	No
RVU37Y	Yes	Yes	Yes	No	WGQWKG	Yes	Yes	Yes	No
T9GPXC	Yes	Yes	Yes	No	WHTZVT	Yes	Yes	Yes	No
TFM3DL	Yes	Yes	Yes	No	WLG7VF	Yes	Yes	Yes	No
TG2PN9	Yes	Yes	Yes	No	WQV433	Yes	Yes	Yes	No
TN9ATE	Yes	Yes	Yes	No	X8QYVU	Yes	Yes	Yes	No
TQ2FWC	Yes	Yes	Yes	No	XLQXJQ	Yes	Yes	Yes	No
TWHX7D	Yes	Yes	Yes	No	XX2BY7	Yes	Yes	Yes	No
TX62K6	Yes	Yes	Yes	No	XYGRBA	Yes	Yes	Yes	No
U33KC3	Yes	Yes	Yes	No	Y27F9W	Yes	Yes	Yes	No
UAHLG7	Yes	Yes	Yes	No	Y4NKLA	Yes	Yes	Yes	No
UBJWUA	Yes	Yes	Yes	No	Y6V3J6	Yes	Yes	Yes	No
UEATZE	Yes	Yes	Yes	No	YJ77PY	Yes	Yes	Yes	No
UHMTW7	Yes	Yes	Yes	No	YQ7PPA	Yes	Yes	Yes	No
UQYV2V	Yes	Yes	Yes	No	YXGUH4	Yes	Yes	Yes	No

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
ZE2VX7	Yes	Yes	Yes	No					
ZEAYJV	Yes	Yes	Yes	No					
ZG3DKZ	Yes	Yes	Yes	No					
ZGQC6T	Yes	Yes	Yes	No					
ZKU2ND	Yes	Yes	Yes	No					
ZMW6YN	Yes	Yes	Yes	No					
ZTQWNW	Yes	Yes	Yes	No					
ZWP9KW	Yes	Yes	Yes	No					
ZYUZCA	Yes	Yes	Yes	No					

DNA Interpretation					
Response Summary			Participants reporting DNA results: 175		
<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		171	172	175	0
No		1	0	0	173
Inc		0	0	0	2
No Interpretation		3	3	0	0
No Response		0	0	0	0

Participants analyzing DNA for database purposes only: 0

Additional Comments

TABLE 5

WebCode	Additional Comments
29ACNM	NR = No DNA Results
2LN8KX	NR = No Results. Data reported out in this test is from analysis using GeneMapper ID-X. STRmix analysis was conducted on this test.
4XT2RR	Y-Screen (YS) was performed on items 1C (CTS Item# 3) and 1D (CTS Item# 4). Both items were YS positive (YS+).
67PJJV	DNA analysis of Item 3 is still in process. Data and interpretation will be updated once analysis is complete.
6A322Q	NR=No Results. STRmix analysis was conducted on this test. Data reported out on this test is from analysis using GeneMapper ID-X.
6BVUWA	Item 3 and Item 4 were Y-Screened with Quantifiler Trio: Item 3: Positive, Item 4: Positive. Item 2 was analyzed with YFiler Plus in Direct Mode.
6LDEG7	STRmix analysis was conducted on this test.
7AGNBT	Extraction: - Item 1 and Item 2 were extracted using chelex extraction method. - Item 3 was extracted using chelex extraction method via differential analysis method while Item 4 was extracted using Investigator kit on QIASymphony automation platform. Quantification: - Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio Quantification kit on QuantStudio 5 Real Time PCR System. Amplification: - Item 1, Item 2, Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification kit on GeneAmp PCR System 9700. - Item 2, Item 3 and Item 4 were further amplified using AmpFISTR YFiler PCR Amplification kit on GeneAmp PCR System 9700. Electrophoresis: - Item 1, Item 2, Item 3 and Item 4 were run on ABI 3500xL Genetic Analyzer for GlobalFiler. - Item 2, Item 3 and Item 4 were run on ABI 3500xL Genetic Analyzer for Y-STR. Quality Control: - Reagent Blank, Positive Control and Negative Control were incorporated throughout the analysis and gave satisfactory results. NM represent Non-male profile.
7HQCNQ	Extraction: Item 1 and Item 2 were extracted using Chelex extraction methods, Item 3 and Item 4 was extracted using QIASymphony DNA Investigator kit via QIASymphony SP. Quantification: DNA quantification for Item 1, Item 2, Item 3 and Item 4 were carried out using the Quantifiler Trio DNA Quantification kit on QuantStudio 5 Real-Time PCR System. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using Globalfiler PCR Amplification kit on 9700 GeneAmp PCR System. Y-STR amplification was carried out on Item 2, Item 3 and Item 4 using AmFLSTR Y-Filer kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 1, Item 2, Item 3 and Item 4. Quality Control: All Reagent Blank, Positive Control and Negative Control were included through out the analysis and give intended results. NM - Non-male profile.
7JC79M	Probabilistic genotyping was used to support inclusions/exclusions.
7RYN4A	Item 3: YS Positive. Item 4: YS Positive. NR = No Results.
7T7736	Items 3 and 4 were extracted via differential separation, per laboratory protocol. Insufficient human DNA was detected in the sperm fraction of item 4, so the report will reflect the non-sperm fraction (epi-fraction) only for item 4. STRmix analysis was conducted on this test.
8KU88U	ONE UNKOWN MALE IS FOUND ALONG WITH THE VICTIM IN ITEM (4).
9J2BEQ	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
9K4WLQ	NR is defined as No Results. The data reported out in this case is from analysis using GeneMapper ID-X. STRmix analysis was conducted on this test.
9TUJZH	Probabilistic genotyping was used to support inclusion/exclusions.

TABLE 5

WebCode	Additional Comments
9WLF7M	Allele 20 for D2S1338 of the Victim was not observed (or below the AT) in the epithelial cells fraction of Item 3. It is standard procedure that we consider allele-drop-out when calculating the LR.
A349UR	Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using the Chelex extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using the Applied Biosystems™ Quantifiler™ Human DNA Quantification Kit on the Applied Biosystems™ QuantStudio™ 5 Real-Time PCR System. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using the Applied Biosystems™ GlobalFiler™ PCR Amplification Kit on the Applied Biosystems™ GeneAmp™ PCR System 9700. Item 2, Item 3 and Item 4 were also amplified using the Applied Biosystems™ AmpFLSTR™ YFiler™ PCR Amplification Kit on the Applied Biosystems™ GeneAmp™ PCR System 9700. Electrophoresis: Electrophoresis was carried out on the Applied Biosystems™ 3500xL Genetic Analyzer and the data were analyzed using GeneMapper™ ID-X Software v1.5. Quality Control: Reagent Blank, Positive Control and Negative Control were included throughout the analysis and all gave intended results. Remark: 'NM' denoted non-male profile.
A682M6	YScreen: male DNA was detected on items 3 and 4. Item 2 amplified using YFiler Plus direct mode. NR = No results.
B98CH6	NR=no results. Y-Screening (male DNA) - QF Trio; Y-Screen positive for items 3 and 4.
BCNW3Y	STRmix analysis was conducted on this test.
BV84XG	Probabilistic genotyping was used to support inclusions/exclusions.
C8MBQM	STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X. NR = no results.
C8ZRMF	For Item 3 we performed differential extraction: - In sample Item3M (Item 3sp - sperm fraction) we obtained male DNA which derive from the Suspect (Item 2). - In sample Item3Z (Item 3e- epithelial fraction) we obtained mixture derived from at least two people. In mixture we indicated DNA alleles compatible to DNA profile of Victim (Item 1) and DNA alleles compatible to DNA profile of the Suspect (item 2). For Item 4 we performed non-differential extractions. As the result we obtained DNA mixture from at least two people. In this mixture we indicated DNA alleles compatible to DNA profile of the Victim (Item 1) and male profile DNA which doesn't derive from the Suspect (Item 2). We performed statistical analysis of results using "LRMix studio v.2.1.3-Community Edition" as do we do with normal results. Value of LR was interpreter of value of the proof and was express in words, using the [Location Identifying Organization] recommendation ([Location Identifying Organization] guideline of evaluative reporting in forensic science, 2015). LR value was count for: - Item 3Z (Item 3e - epithelial fraction of differential DNA extraction). - Item 3M (Item 3sp - sperm fraction of differential DNA extraction). - Item 4 (for which was performed non-differential DNA extraction). We had confirmed comparative material from Victim (Item 1) and the Suspect (Item 2) to proceed with analysis. Calculations was based on population database for GlobalFiler PCR Amplification Kit producer of reagents for Caucasian population. We used allele frequencies from that database. The statistical analysis contains below conclusions: 1) Proof from genetic analysis from Item 4 gives extreme high support (LR= 2,43 x 10 ¹²) for hypothesis, that this sample contains DNA of the Victim (Item 1) and DNA different, unknown (NN), coincidental, not related person in population, against to alternative hypothesis saying that this sample contains DNA of two different, unknown (NN), coincidental, not related people. 2) Proof from genetic analysis from Item 3M gives extreme high support (LR=1,79 x 10 ²⁵) for hypothesis, that this sample contains DNA of the Suspect (Item 2), against to alternative hypothesis saying that this sample contains DNA of different, unknown (NN), coincidental, not related person. 3) Proof from genetic analysis from Item 3Z gives extreme high support (LR=2,26 x 10 ¹²) for hypothesis, that this sample contains DNA of the Victim (Item 1) and DNA different, unknown (NN), coincidental, not related person in population, against to alternative hypothesis saying that this sample contains DNA of two different, unknown (NN), coincidental, not related people. 4) Proof from genetic analysis from Item 3Z gives extreme high support (LR=1,09 x 10 ¹²) for hypothesis, that this sample contains DNA of the Suspect (Item 2) and DNA different, unknown (NN), coincidental, not related person in population, against to alternative hypothesis saying that this sample contains DNA of two different, unknown (NN), coincidental, not related people.

TABLE 5

WebCode	Additional Comments
CABMGU	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
D87DXM	Item 3 Log10(LR): Item 1 + 1 unkn vs 2 unkn: Casesolver = 1.7E+01, LRMixStudio (d.o. = 0.16) = 1.4E+01, LabRetriever (d.o. = 0.16) = 1.4E+01, 1.2E+01, 1.2E+01, DNAView = 1.7E+01, EFM = 1.8E+01. Item 2 + 1 unkn vs 2 unkn: Casesolver = 1.7E+01, LRMixStudio (d.o. = 0.16) = 1.5E+01, LabRetriever (d.o. = 0.16) = 1.4E+01, 1.3E+01, 1.3E+01, DNAView = 1.8E+01, EFM = 1.8E+01. Item 1 + Item 2 vs 2 unkn: LRMixStudio (d.o. = 0.16) = 3.5E+01, LabRetriever (d.o. = 0.16) = 3.3E+01, 3.0E+01, 3.0E+01, DNAView = 4.6E+01, EFM = 4.7E+01. Item 4 Log10(LR): Item 1 + 1 unkn vs 2 unkn: Casesolver = 1.6E+01, LRMixStudio (d.o. = 0.14) = 1.4E+01, LabRetriever (d.o. = 0.14) = 1.5E+01, 1.2E+01, 1.2E+01, DNAView = 1.7E+01, EFM = 1.9E+01. Item 2 + 1 unkn vs 2 unkn: Casesolver = -1.9E+01, LRMixStudio (d.o. = 0.1) = -2.1E+01, LabRetriever (d.o. = 0.1) = -1.9E+01, -2.0E+01, -1.9E+01, DNAView = -3.2E+01, EFM = -2.9E+01.
DQ8EUE	Probabilistic genotyping was used to support inclusion/exclusions.
EAL9CY	NR = no results. Y-screen assay results: Item 3: positive. Item 4: positive.
EJBWAM	Extraction: -Item 1 (bloodstain) , Item 2(bloodstain) and Item 4(bloodstain) were extracted using Automate Express by Prepfilier Express Kit. -Item 3 (semen stain) was extracted using differential extraction method. Quantification: -Item 1, Item 2, Item 3, Item 4 were quantified using Quantifiler Trio DNA Quantification Kit on QuanStudio 5 Real-Time PCR System. Amplification: -Item 1, Item 2, Item 3(sp), Item 3 (epi) and Item 4(bs) were amplified using the GlobaFiler Amplification kit. -Item 2, Item 3(sp), Item 3(epi) and Item 4(bs) were amplified using Y-Filer Kit. Electrophoresis -All amplified product were run on Genetic Analyzer 3500. Quality Control: -All reagent blank, positive control and negative control were carried out through out the analysis and gave intended results. Remarks: -NM: Non-male profile.
EKYBGL	This CTS report contains my interpretations from data generated from another qualified analyst's laboratory benchwork. The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping, stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
FLWXRf	Results were reported out using analysis from GeneMapper ID-X. STRmix analysis was conducted on this test. NR= No results.
FWT2LQ	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
GAVYZA	Probabilistic genotyping was used to support inclusion/exclusions.
GJHZGJ	N/A = Not Applicable
GQUCAB	Sample 3, sperm fraction: Probabilistic genotyping was used to support inclusions.
H7M7JG	N/A = not applicable
J9DLQU	NR = No results. Y-Screening Results: Items 3 and 4 were Y-screen positive. Human male DNA was detected on items 3 and 4.
JEHHCE	NR = No Result. STRmix analysis conducted on this test. Reported data analyzed with GeneMapper ID-X.
JN6PR8	Probabilistic genotyping was used to support inclusion/exclusions.

TABLE 5

WebCode	Additional Comments
JR8H3G	Extraction: Item 1 and Item 2 were extracted using Chelex and Automate Express extraction methods, Item 3 was extracted using Chelex extraction method while Item 4 was extracted using Chelex and Automate Express extraction methods. Quantification: DNA quantitation for Item 1, Item 2, Item 3 and Item 4 were carried out using the Quantifiler Human DNA Quantification kit with Applied Biosystem QuantStudio 5 Real-Time PCR System. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification kit on 9700 GeneAmp PCR System. Y-STR(Y-Short Tandem Repeat) amplification was carried out on Item 2, Item 3 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, Item 2, Item 3 and Item 4 (GlobalFiler). Electrophoresis for Y-Filer was carried out on Genetic Analyzer 3500xl for Item 2, Item 3 and Item 4. Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results. Abbreviation: NM: Non-male Profile.
JRTVQU	Y-screen testing performed on items 3 and 4. Male DNA was detected for items 3 and 4.
K78GQE	NR=No Results. STRmix analysis was conducted on Item 3e and Item 4. Data for all reported items was generated using GeneMapper ID-X.
KURTER	NR=No results. Y-screen results - items 3 and 4 positive for human male DNA.
M4PA7H	The second contributor in Item 4 (Male) is not the Male suspect. Confirmed by YF+ of Item 4. Item 3 - SE33 shows peak (30.2) too high for over-stutter. Below drop-in cap. Item 4 - SE33 shows peak (31.2) too high for over-stutter. Would re-amp to resolve.
MJLNFB	Extraction: Item 1 & 2 were extracted using Chelex method. Item 3 & 4 were extracted using Qiasymphony DNA Investigator Kit via QIAsymphony SP. Quantification : Item 1 & 2 & 3 & 4 were quantified using Quantifiler Trio DNA Quantification Kit on RTPCR QuantStudio 5. Amplification : Item 1 & 2 & 3 & 4 were amplified using Globalfiler STR Kit on 9700 GeneAmp PCR System. Y-STR amplification was carried out on Item 2, 3 & 4 using AmFLSTR Y-Filer kit on 9700 GeneAmp PCR. Electrophoresis: Electrophoresis for Item 1, 2 ,3 & 4 was carried out on Genetic Analyzer 3500xl. Quality Control: Reagent Blank, Positive & Negative Control were run together throughout the analysis. NM : Represented Non-Male Profile.
NZQGKP	Y-Screen - Item 3 Positive, Item 4 Positive. Item 2 - analyzed using YFiler Plus in direct mode. NR=No results.
Q2UN39	NR= No Results. STRmix analysis was conducted on this test. Data reported out in this test is from analysis using GeneMapper ID-X.
QR2LGZ	Probabilistic genotyping was used to support inclusions/exclusions.
R99X4A	1. Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using Chelex extraction method. 2. Quantification: Item 1, Item 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. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using Globalfiler PCR Amplification Kit on 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification was carried out on Item 2, Item 3 and Item 4 using AmpFISTR Y-Filer PCR amplification kit on 9700 GeneAmp PCR System. 4. Electrophoresis: Electrophoresis was carried out on the Applied Biosystems 3500xl Genetic Analyzer with GeneMapper ID-X Software for Item 1, Item 2, Item 3 and Item 4 (Globalfiler). Electrophoresis for Y-Filer was carried out using Applied Biosystem 3500xl Genetic Analyzer with GeneMapper ID-X Software for Item 2, Item 3 and Item 4. 5. Reagent blank, positive control and negative control were carried out throughout the analysis and all gave the intended results. 6. NM = non male profile.
RK3B2L	NR = No Results. Y-Screening Assay Results: Item 1C: Positive for male DNA. Item 1D: Positive for male DNA.
RQLLXB	NA=indicates not applicable
T9GPXC	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.

TABLE 5

WebCode	Additional Comments
TQ2FWC	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
VQXEJF	STRmix analysis was conducted on this test. Item 4 sperm fraction was stopped at quant.
W3DYY3	NA is not applicable
WGQWKG	Y-Screen was performed on items 3 ([Laboratory] item 1C) and 4 ([Laboratory] item 1D). Both items tested positive for the presence of human male DNA. NR = No Results. DM = Direct Mode (Item 2: male-specific DNA analysis was performed in DM)
WQV433	NR = No Results. The data reported is from analysis using GeneMapper ID-X. STRmix analysis was performed on this test.
XLQXJQ	()- lighter intensity allele, NR- no DNA result
Y27F9W	NR = No Results. Data reported is from analysis using GeneMapper ID-X. STRmix analysis was conducted on this test.
YJ77PY	Extraction: -Item 1 and Item 2 were extracted using chelex method. -Item3 were extracted using differential extraction chelex method. -Item 4 were extracted using Qiagen EZ2 Connect platform. Quantitation: -Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio Kit via QuantStudio5. Amplification: -Item 1, Item 2, Item 3 and Item 4 were amplified using Globalfiler Kit on 9700 GeneAmp PCR System. -Item 2, Item 3 and Item 4 were amplified using AMPFLSTR Y-Filer Kit on 9700 GeneAmp PCR System. Electrophoresis: -Electrophoresis for Globalfiler PCR products of Item 1, Item 2, Item 3 and Item 4 were carried out using Genetic Analyzer 3500xl. -Electrophoresis for YFiler PCR products of Item 2, Item 3 and Item 4 were carried out using Genetic Analyzer 3500xl. Quality Control: -Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results. NM- Non-male profile.
ZE2VX7	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
ZG3DKZ	For items 3 and 4, differential extraction was carried out at the examination stage. Based on examination findings, only appropriate fractions of the extracted samples were submitted for DNA profiling, following normal lab protocols.
ZGQC6T	Probabilistic genotyping was used to support inclusions/exclusions.
ZKU2ND	NR= No result. Y-Screen Results (Quant Trio): Item 3: Human male DNA was detected. Item 4: Human male DNA was detected.
ZMW6YN	NR = No results
ZYUZCA	STRmix analysis was conducted on this test.

-End of Report-
(Appendix may follow)

Test No. 24-5801: DNA-Mixture

DATA MUST BE SUBMITTED BY **March 04, 2024, 11:59 p.m. EST** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: 2JVBV4

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

Scenario:

Police are investigating a sexual assault involving a female victim and male suspect. The victim reported to police that the suspect was at her house for a date. The suspect forced the victim to have vaginal sex in her bed. The victim hit the suspect in an attempt to escape. Police are submitting to your laboratory two stains from the green and yellow fitted bedsheets on the victim's bed (Items 3 and 4). Screening tests have been performed on both samples with the following results: Item 3 (green portion of fitted bedsheets) is positive for blood and semen, and Item 4 (yellow portion of fitted bedsheets) is positive for blood. Also collected were known blood samples from the female victim (Item 1) and the male suspect (Item 2).

Items Submitted (Sample Pack S1):

Item 1: Known blood from the female victim

Item 2: Known blood from the male suspect

Item 3: Questioned blood and semen stain from fitted bedsheets (green)

Item 4: Questioned blood stain from fitted bedsheets (yellow)

Part I: DNA Results for Known Item 1

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

STR Amplification Kit(s) Used:

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

Identifiler®
 GlobalFiler™
 Investigator® 24plex

 PowerPlex®
 Other

Report the Probabilistic Genotyping Software Used (if applicable):

Alleles below are sorted in Default order.

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

Part II: DNA INTERPRETATION

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

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

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

Part III: ADDITIONAL COMMENTS

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

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

RELEASE OF DATA TO ACCREDITATION BODIES

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

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

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

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

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

ANAB Certificate No.

A2LA Certificate No.

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

Authorized Contact Person and Title

Laboratory Name

Location (City/State)