



DNA-Mixture Test No. 20-5801

Summary Report

Each participant received a sample pack consisting of two known bloodstains and two questioned stains which they were requested to analyze using their existing protocols. Data were returned from 235 participants and are compiled into the following tables:

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

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

Manufacturer's Information

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

SAMPLE PREPARATION: The stains in Items 1, 2, and 3 were prepared using human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. The stain in Item 4 was a mixture prepared from human whole blood and semen. The semen sample was first thawed and mixed 1:1 with TAE buffer, then mixed 1:1 with the blood. Item 1 (50 μ l) was created using blood from a female donor. Item 2 (50 μ l) was created using blood collected from a male donor. Item 3 (50 μ l) was a 1:1 mixture that was prepared using blood from the female donor used for Item 1 and blood from the male donor used for Item 2. Item 4 (50 μ l) was created using a 1:1 mixture of blood from the female donor found in Item 1 and semen 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 6, 2020 following receipt of predistribution results.

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

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

Manufacturer's Information, continued

Amelogenin and STR Results						
Results compiled from predistribution laboratories and a consensus of at least 10 participants.						
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	
1	14,15	18,19	11,11	14,18	9,11	*
	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20	18.2,30.2	6,7	11,11
	16,18	NM	NM	NM	NM	
2	16.3,17	17,19	11,14	15,17	12,13	*
	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17	19,20	6,9.3	8,11
	15,17	11	16	18	2	
3	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	*
	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20	18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11	16	18	2	
4-Blood	14,15	18,19	11,11	14,18	9,11	*
	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20	18.2,30.2	6,7	11,11
	16,18	NM	NM	NM	NM	
4-Semen	15.3,16	22,24	13,14	17,18	12,13	*
	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18	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	35,37	14	11,11	13	29	24	11	13	14	
	15	12	12	19	28	15	17	11	22	
	40	13	13	16	18	23	23	10	11	
3	35,37	14	11,11	13	29	24	11	13	14	
	15	12	12	19	28	15	17	11	22	
	40	13	13	16	18	23	23	10	11	
4-Semen	35,37	15	11,14	12	28	23	11	13	13	
	15	12	13	18	29	16	17	11	22	
	37	12	13	17	18	22	25	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

The 20-5801 DNA-Mixture test is part of the DNA Sample Specific Series, where participants are advised of the body fluid(s) that made up the questioned stains. The test is designed to allow participants to assess their proficiency in the analysis of dried stains. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). 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 for Item 1 and blood from the male donor used for Item 2. Item 4 was created using a mixture of blood from the female donor used for Item 1 and semen from a male donor whose standard was not provided. (See Manufacturer's Information for preparation details)

All of the 235 participants that returned results reported DNA interpretations.

For the Item 3 stain, all but one of the participants that reported interpretations included the victim (Item 1) as a possible contributor. This remaining participant excluded the victim as a possible contributor. All participants that reported interpretations included the suspect (Item 2) as a possible contributor to Item 3.

For the Item 4 stain, all participants that reported interpretations included the victim (Item 1) as a possible contributor to Item 4. All but one of the participants that reported interpretations excluded the suspect (Item 2) as a possible contributor to Item 4. This one remaining participant was inconclusive as to whether the suspect was a contributor to the stain.

A total of 42 participants reported the use of Probabilistic Genotyping (PG) software on either solely the questioned items or all four items. Inconsistent results were reported by ten of these participants. The breakdown of inconsistencies is as follows: all but one reported additional alleles for one or more questioned items and two participants were missing alleles. The majority of participants reporting the use of PG software stated in their additional comments that stutter may be included in the DNA results.

Twenty-three additional participants reported allelic responses that differed from the consensus/predistribution results for one or more items. The breakdown of inconsistencies is as follows: 13 reported additional alleles, five were missing alleles, three reported allelic results that differed from the consensus, one reported a combination of different types of inconsistencies and one reported the Item 2 profile for the Item 3 results and the inverse for the Item 2 results. Based on the interpretations above, these inconsistencies did not appear to affect these participants' conclusions.

STR Amplification Kit(s) & Results

TABLE 1

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

Item 1 - STR Results

2BQNFX	PowerPlex® Fusion					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22	12,13	20		6,7
		16,18	ND			11
<hr/>						
2CLEH6	PowerPlex® Fusion					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22	12,13	20		6,7
		16,18				11
<hr/>						
2HYXZC	GlobalFiler™					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X,X
		20,22			18.2,30.2	6,7
		16,18				11
<hr/>						
2VJEU	Identifiler® Plus					
		-	18,19	-	14,18	9,11
1		8,9	12,15	-	-	11,12
		14,17	12,17.2	30	-	X,X
		20,22	-	-	-	6,7
		16,18	-	-	-	11
<hr/>						
2Y47EE	PowerPlex® Fusion 5C					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22	12,13	20		6,7
		16,18				11
<hr/>						
2YJNWQ	PowerPlex®					
		14,15	18,19	11,11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30,30	14,15	X,X
		20,22	12,13	20,20		6,7
		16,18	ND			11,11

TABLE 1

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

Item 1 - STR Results

373EWQ	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
3AVCCG	PowerPlex® Fusion, Applied Biosystems VeriFiler Plus (SoftGenetics GeneMarker HID 2.9)					
	14,15	18,19	11	14,18	9,11	17,20
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
3GVR2P	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
3LNT2H	Identifiler® Plus					
		18,19		14,18	9,11	
1	8,9	12,15			11,12	11,12
	14,17	12,17.2	30		X,X	10,11
	20,22				6,7	11
	16,18					
3LV6VU	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
3M7NZX	PowerPlex® Fusion 6C					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20	18.2,30.2	6,7	11
	16,18					
3MYVP3	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18	NR				

TABLE 1

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

Item 1 - STR Results

3NW4XL	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18,2,30.2	6,7	11,11
	16,18					
3X4NGH	Identifiler® Plus					
		18,19		14,18	9,11	
1	8,9	12,15			11,12	11,12
	14,17	12,17.2	30		X,X	10,11
	20,22				6,7	11
	16,18					
3X7JUL	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18,2,30.2	6,7	11,11
	16,18	NR			NR	
3XLRWV	PowerPlex®					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	ND				
3ZCU3J	PowerPlex® Fusion 6C					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20	18,2,30.2	6,7	11,11
	16,18					
42YVB4	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
44QUP3	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18,2,30.2	6,7	11
	16,18					

TABLE 1

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

Item 1 - STR Results

4CEQFH	Identifiler® Plus					
		18,19		14,18	9,11	
1	8,9	12,15			11,12	11,12
	14,17	12,17.2	30		X	10,11
	20,22				6,7	11
	16,18					
4K9UJE	Identifiler® Plus					
		18,19		14,18	9,11	
1	8,9	12,15			11,12	11,12
	14,17	12,17.2	30,30		X,X	10,11
	20,22				6,7	11,11
	16,18					
4TGNCL	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18	ND			ND	
4WPHRK	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
692882	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
6AM3GM	GlobalFiler™ Express					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18	NR			NR	
6BPLPJ	VeriFiler Plus					
	14,15	18,19	11,11	14,18	9,11	17,20
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18					

TABLE 1

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

Item 1 - STR Results

6CZJ32	PowerPlex® Fusion					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22	12,13	20		6,7
		16,18				11
6HEP4C	GlobalFiler™					
		14,15	18,19	11,11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30,30	14,15	X,X
		20,22			18.2,30.2	6,7
		16,18				11,11
6JCQEB	GlobalFiler™					
		14,15	18,19	11,11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30,30	14,15	X,X
		20,22			18.2,30.2	6,7
		16,18				11,11
6L7MQB	PowerPlex® Fusion 5C					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22	12,13	20		6,7
		16,18				11
6N9HKL	GlobalFiler™ Express					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22			18.2,30.2	6,7
		16,18	No results			No results
6NCX2T	PowerPlex® Fusion 5C					
		14,15	18,19	11,11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30,30	14,15	X,X
		20,22	12,13	20,20		6,7
		16,18	ND			11,11
6QWX2A	GlobalFiler™					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X,X
		20,22			18.2,30.2	6,7
		16,18				11

TABLE 1

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

Item 1 - STR Results

772P8J	GlobalFiler™ (STRmix)					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
78HUPH	GlobalFiler™ (STRmix)					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
7BZ264	PowerPlex® Fusion 5C					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	ND				
7K3GTN	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
7NRR2U	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
7QVMKW	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
7V4RCW	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18	ND				

TABLE 1

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

Item 1 - STR Results

83EMF4	PowerPlex® Fusion					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X,X
		20,22	12,13	20		6,7
		16,18				11
88WL9Q	GlobalFiler™					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22			18.2,30.2	6,7
		16,18				11
8TVVML	PowerPlex® Fusion					
		14,15	18,19	11,11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30,30	14,15	X,X
		20,22	12,13	20,20		6,7
		16,18	ND			11,11
8UNZTE	PowerPlex® Fusion 6C					
		14,15	18,19	11,11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30,30	14,15	X,X
		20,22	12,13	20,20	18.2,30.2	6,7
		16,18				11,11
8WV7HL	PowerPlex® Fusion					
		14,15	18,19	11,11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30,30	14,15	X,X
		20,22	12,13	20,20		6,7
		16,18	ND			11,11
8XMBNE	PowerPlex® Fusion 6C					
		14,15	18,19	11,11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30,30	14,15	X,X
		20,22	12,13	20,20	18.2,30.2	6,7
		16,18				11,11
93WV4Y	PowerPlex® Fusion					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22	12,13	20		6,7
		16,18				11

TABLE 1

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

Item 1 - STR Results

963D6F	GlobalFiler™					
		14,15	18,19	11,11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30,30	14,15	X,X
		20,22			18.2,30.2	6,7
		16,18				11,11
968K33	PowerPlex® Fusion					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22	12,13	20		6,7
		16,18				11
98VXKL	PowerPlex® Fusion					
		14,15	18,19	11,11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30,30	14,15	X,X
		20,22	12,13	20,20		6,7
		16,18	ND			11,11
9URQPN	GlobalFiler™					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22			18.2,30.2	6,7
		16,18				11
9XMGVZ	PowerPlex® Fusion					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22	12,13	20		6,7
		16,18				11
A7DFQE	GlobalFiler™					
		14,15	18,19	11,11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30,30	14,15	X,X
		20,22			18.2,30.2	6,7
		16,18				11,11
AACUFP	PowerPlex® Fusion					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22	12,13	20		6,7
		16,18				11

TABLE 1

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

Item 1 - STR Results

ABQ89R	PowerPlex® Fusion 5C					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
ACHE7A	GlobalFiler™ (STRmix)					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
AG9UNP	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
AGFPKH	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18	NR			NR	
ANTV38	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
AP24XK	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
APBP4G	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18	N/A			N/A	

TABLE 1

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

Item 1 - STR Results

AT3AB6	PowerPlex® Fusion 5C					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18	NR				
AYCEEQ	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18	ND				
AYD32W	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
B3VN8P	PowerPlex® Fusion 6C					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20	18.2,30.2	6,7	11
	16,18					
BKFDKQ	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
BQHJZT	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
BTJET4	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					

TABLE 1

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

Item 1 - STR Results

BVBNRC	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
BWHWPB	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
BY9YWJ	PowerPlex® Fusion 5C					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	ND				
C2CX6	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
C6EX2	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18	NR			NR	
CBJUJM	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
CCULQH	PowerPlex® Fusion 5C					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					

TABLE 1

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

Item 1 - STR Results

CNH23W	PowerPlex® Fusion					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	ND				
CVPEBF	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18	NR			NR	
CW3TW4	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
CXG7P8	GlobalFiler™ (STRMIX)					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
DCMBUX	Identifiler® Plus					
	-	18,19	-	14,18	9,11	-
1	8,9	12,15	-	-	11,12	11,12
	14,17	12,17.2	30	-	X,X	10,11
	20,22	-	-	-	6,7	11
	16,18	-	-	-	-	
DDHLYD	GlobalFiler™ Express					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18	NP			NP	
DDL2FK	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					

TABLE 1

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

Item 1 - STR Results

DHVHMM	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
DKZVMA	GlobalFiler™ (STRmix)					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
DN4WEJ	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
DW88D9	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	XX	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
DWFTH6	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	XX	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
DYZP2P	PowerPlex® Fusion					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	XX	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	0				
E3C6H8	GlobalFiler™ (STRmix)					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					

TABLE 1

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

Item 1 - STR Results

EBD4NN	PowerPlex® Fusion					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18					
EC6CL7	ESI17					
	14,15	18,19	11,11	14,18		
1		12,15	13,14	19,21		11,12
	14,17	12,17.2	30,30	14,15	X,X	
	20,22			18.2,30.2	6,7	
	16,18					
EE6PXX	Identifiler® Plus					
	-	18,19	-	14,18	9,11	-
1	8,9	12,15	-	-	11,12	11,12
	14,17	12,17.2	30	-	X,X	10,11
	20,22	-	-	-	6,7	11
	16,18	-	-	-	-	
EECHBD	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
EF2ZX8	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
EQ67ZL	PowerPlex® Fusion 5C					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,Y	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18					
EW8F8E	PowerPlex® Fusion					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18					

TABLE 1

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

Item 1 - STR Results

EZCQFB	GlobalFiler™ Express					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18	NR			NR	
F43QN3	PowerPlex® Fusion 6C (GeneMapper ID-X 1.4)					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20	18.2,30.2	6,7	11,11
	16,18					
FB2BU6	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
FBCU8C	GlobalFiler™ (STRmix)					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
FUEVQ9	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
FW6364	PowerPlex® 21					
	14,15	18,19		14,18	9,11	17,20
1	8,9	12,15		19,21	11,12	11,12
	14,17	12,17.2	30,30		X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18					
FXW2DA	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18	NR			NR	

TABLE 1

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

Item 1 - STR Results

FYHDHB	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
G2FB79	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
G6YAHH	PowerPlex® Fusion 5C					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18	ND				
GANYUE	PowerPlex®					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	ND				
GH4NHE	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
GHKPKG	PowerPlex® Fusion 5C					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	0				
GJWWFW	GlobalFiler™ (STRmix)					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					

TABLE 1

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

Item 1 - STR Results

GL6L62	PowerPlex® Fusion 5C					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18					
GVN6EY	PowerPlex® Fusion 5C					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18	NR				
H7RLWG	PowerPlex® Fusion 6c					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20	18.2,30.2	6,7	11
	16,18					
HHHAU3	Identifiler® Plus					
		18,19		14,18	9,11	
1	8,9	12,15			11,12	11,12
	14,17	12,17.2	30,30		X,X	10,11
	20,22				6,7	11,11
	16,18					
HNKN9C	PowerPlex® Fusion					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	ND				
HNMEHF	PowerPlex® Fusion 6C					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20	18.2,30.2	6,7	11
	16,18					
J996GC	PowerPlex® Fusion 5C					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	ND				

TABLE 1

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

Item 1 - STR Results

JA2BM4	GlobalFiler™ Express					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
JCPP4R	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
JUKJFP	PowerPlex® Fusion					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	ND				
JWVJ6	GlobalFiler™ (STRmix)					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
K2XRGQ	PowerPlex® Fusion (BulletProof Probabilistic Genotyping Software)					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18					
KGT6X8	GlobalFiler™ Express					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18	NR			NR	
KHWM74	PowerPlex® Fusion					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	ND				

TABLE 1

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

Item 1 - STR Results

KPMAQ9	GlobalFiler™ Express					
	14,15	18,19	11	14,18	9,11	NT
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	NT	NT	18.2,30.2	6,7	11
	16,18	NR	NT	NT	NR	
KR2MLW	GlobalFiler™ (STRmix)					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
KTW9EN	PowerPlex® Fusion 5C					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
KXND9R	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
L9H3C7	GlobalFiler™ Express					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18	NR			NR	
L9LLK4	PowerPlex® Fusion 5C					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	nd				
LENMP4	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					

TABLE 1

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

Item 1 - STR Results

LFE3K8	NGM SElect					
	14,15	18,19	11,11	14,18		
1		12,15	13,14	19,21		11,12
	14,17	12,17.2	30,30	14,15	X,X	
	20,22			18.2,30.2	6,7	
	16,18					
LFGRVW	PowerPlex® Fusion 5C					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18					
LH8M2D	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18	ND				
LRT3GZ	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
MAQMRU	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18	0			0	
MCW7QF	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
MHKRKV	PowerPlex® Fusion 6C					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20	18.2,30.2	6,7	11
	16,18					

TABLE 1

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

Item 1 - STR Results

MPLY9B	PowerPlex® Fusion 5C					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	ND				
MRU39D	PowerPlex® Fusion					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,Y	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	ND				
MTL9E7	PowerPlex® Fusion 5C					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
MXEGGR	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18	NR				
N28ZVW	Identifiler® Plus					
		18,19		14,18	9,11	
1	8,9	12,15			11,12	11,12
	14,17	12,17.2	30		X,X	10,11
	20,22				6,7	11
	16,18					
N6C8VZ	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
N74MQ4	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					

TABLE 1

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

Item 1 - STR Results

NBKQWE	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
NBWNQX	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
NBWNTJ	PowerPlex® ESI 16 Fast					
	14,15	18,19	11,11	14,18		
1		12,15	13,14	19,21		11,12
	14,17	12,17.2	30,30	14,15	X,X	
	20,22				6,7	
	16,18					
NCWFCK	PowerPlex® Fusion 5C					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18					
NFQG88	PowerPlex® Fusion					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	ND				
NKALUA	PowerPlex® Fusion 6C					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20	18.2,30.2	6,7	11
	16,18					
NN3KAZ	GlobalFiler™ (STRMIX)					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					

TABLE 1

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

Item 1 - STR Results

NPBWR2	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18	-			-	
NR949L	PowerPlex® Fusion 5c					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
NX9GX3						
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18					
PCM6QX	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
PCTBC2	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18	NR			NR	
PG4GUU	PowerPlex® 21					
	14,15	18,19		14,18	9,11	17,20
1	8,9	12,15		19,21	11,12	11,12
	14,17	12,17.2	30,30		X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18					
PK2RY2	GlobalFiler™ Express					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18	NR			NR	

TABLE 1

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

Item 1 - STR Results

PPVR7A	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
PX2UVF	PowerPlex® Fusion 5C					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18	NR				
QEBPF3	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
QGUVPX	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
QG XKPN	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18	NR				
QL697V	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
QLDUBR	GlobalFiler™ (STRmix)					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					

TABLE 1

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

Item 1 - STR Results

QMMZFF	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18	NR				
QNXQVC	PowerPlex® Fusion					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18					
QG8QZJ	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
QXKVK4	GlobalFiler™ Express					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18	No result			No result	
R3YYC	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
RKCM4W	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18	NR			NR	
RL8X8M	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					

TABLE 1

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

Item 1 - STR Results

RP893M	GlobalFiler™					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22			18.2,30.2	6,7
		16,18				11
RXJAV3	GlobalFiler™					
		14,15	18,19	11,11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30,30	14,15	X,X
		20,22			18.2,30.2	6,7
		16,18				11,11
T46GW8	GlobalFiler™					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22			18.2,30.2	6,7
		16,18				11
T63UHE	PowerPlex® Fusion					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22	12,13	20		6,7
		16,18				11
T9V8QW	PowerPlex® Fusion					
		14,15	18,19	11,11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30,30	14,15	X,X
		20,22	12,13	20,20		6,7
		16,18	ND			11,11
T9YM84	PowerPlex® Fusion					
		14,15	18,19	11,11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30,30	14,15	X,X
		20,22	12,13	20,20		6,7
		16,18	ND			11,11
TCYMQ9	GlobalFiler™					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22			18.2,30.2	6,7
		16,18				11

TABLE 1

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

Item 1 - STR Results

TG4NDW	GlobalFiler™ (STRmix)					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
TH6KV8	PowerPlex® Fusion					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	ND				
TJDTQK	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18	NR				
TXWEDY	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
TXX6NN	GlobalFiler™ (STRmix)					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
TZXGF	PowerPlex® Fusion 5C					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	ND				
U79WGJ	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					

TABLE 1

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

Item 1 - STR Results

UHXP2Y	GlobalFiler™ Express					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18	No Results			No Results	
UJAL2X	PowerPlex® Fusion 6C (mRMP by Familias3)					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20	18.2,30.2	6,7	11,11
	16,18					
UJERZK	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
UJU9TT	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
V4WJCM	GlobalFiler™ (STRmix)					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
V66PJV	GlobalFiler™ PCR Amplification Kit					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
V8AH9N	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					

TABLE 1

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

Item 1 - STR Results

VMMQAR	GlobalFiler™ (STRmix)					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
VQPKC3	PowerPlex® Fusion					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	ND				
VQR3KY	PowerPlex® Fusion					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	ND				
VXRVR	GlobalFiler™ (STRmix)					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
VXLEBL	PowerPlex® Fusion 5C					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18					
VYJRW	PowerPlex® Fusion					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	ND				
VYM8DZ	PowerPlex® Fusion 5C					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X,X	10,11
	20,22	12,13	20		6,7	11
	16,18	ND				

TABLE 1

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

Item 1 - STR Results

W64Z36	PowerPlex®					
		14,15	18,19	11,11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30,30	14,15	X,X
		20,22	12,13	20,20		6,7
		16,18	ND			11,11
W6PRXB	PowerPlex® Fusion					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22	12,13	20		6,7
		16,18				11
W8D4Y3	GlobalFiler™					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22			18,2,30.2	6,7
		16,18				11
WAJTX6	PowerPlex® Fusion					
		14,15	18,19	11,11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30,30	14,15	X,X
		20,22	12,13	20,20		6,7
		16,18	ND			11,11
WGU2BY						
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22	12,13	20		6,7
		16,18				11
WHY872	GlobalFiler™					
		14,15	18,19	11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30	14,15	X
		20,22			18,2,30.2	6,7
		16,18				11
WNZH4U	GlobalFiler™					
		14,15	18,19	11,11	14,18	9,11
1		8,9	12,15	13,14	19,21	11,12
		14,17	12,17.2	30,30	14,15	X,X
		20,22			18,2,30.2	6,7
		16,18				11,11

TABLE 1

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

Item 1 - STR Results

WPN74Z	PowerPlex® Fusion 5C					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	ND				
WRBTU3	PowerPlex® ESX 17 Fast					
	14,15	18,19	11,11	14,18		
1		12,15	13,14	19,21		11,12
	14,17	12,17.2	30,30	14,15	X,X	
	20,22			18.2,30.2	6,7	
	16,18					
WU2XJT	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
WXKWV3	PowerPlex® Fusion 5C					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18	ND				
X3PAZE	Identifiler® Plus					
	-	18,19	-	14,18	9,11	-
1	8,9	12,15	-	-	11,12	11,12
	14,17	12,17.2	30	-	X,X	10,11
	20,22	-	-	-	6,7	11
	16,18	-	-	-	-	
X9JYPY						
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
XAAZUM	GlobalFiler™ (STRmix v2.6.3 - as reference profile)					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					

TABLE 1

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

Item 1 - STR Results

XCGJTH	PowerPlex® Fusion 5C					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18					
XRY4J4	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18	ND				
XVRCEW	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18,2,30.2	6,7	11,11
	16,18					
XVU3PL	PowerPlex® Fusion 5C					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	--	--	--	--	
XYBH2Y	PowerPlex® Fusion					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	nd				
Y3LXZP	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18,2,30.2	6,7	11
	16,18					
YCYZCH	PowerPlex® Fusion 5C					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					

TABLE 1

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

Item 1 - STR Results

YEP2G7	GlobalFiler™					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18	--			--	
YNQB3A	PowerPlex® Fusion 5C					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18					
YRPUV	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18	ND				
YVLPBN	GlobalFiler™ (STRmix)					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					
Z3C2KC	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
ZCNJ9	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18	ND				
ZCPJGN	GlobalFiler™ (STRmix)					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					

TABLE 1

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

Item 1 - STR Results

ZQDGRY	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18	ND				
ZQFZZV	PowerPlex® Fusion					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18	ND				
ZQUFZQ	Identifiler® Direct					
		18,19		14,18	9,11	
1	8,9	12,15			11,12	11,12
	14,17	12,17.2	30,30		X,X	10,11
	20,22				6,7	11,11
	16,18					
ZTJQ9W	GlobalFiler™ (STRmix)					
	14,15	18,19	11,11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22			18.2,30.2	6,7	11,11
	16,18					
ZUBVEN	GlobalFiler™					
	14,15	18,19	11	14,18	9,11	
1	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22			18.2,30.2	6,7	11
	16,18					

TABLE 1

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

Item 2 - STR Results

2BQNFEX	PowerPlex® Fusion					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11
		13,14	14,16	28,31.2	15,16	X,Y
		20	9,14	12,17		6,9.3
		15,17	11			8,11
2CLEH6	PowerPlex® Fusion					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11
		13,14	14,16	28,31.2	15,16	X,Y
		20	9,14	12,17		6,9.3
		15,17	11			8,11
2HYXZC	GlobalFiler™					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11
		13,14	14,16	28,31.2	15,16	X,Y
		20			19,20	6,9.3
		15,17	11			8,11
2VJEUC	Identifiler® Plus					
		-	17,19	-	15,17	12,13
2		8,12	11,15	-	-	11
		13,14	14,16	28,31.2	-	X,Y
		20	-	-	-	6,9.3
		15,17	-	-	-	8,11
2Y47EE	PowerPlex® Fusion 5C					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11
		13,14	14,16	28,31.2	15,16	X,Y
		20	9,14	12,17		6,9.3
		15,17	11			8,11
2YJNWQ	PowerPlex®					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11,11
		13,14	14,16	28,31.2	15,16	X,Y
		20,20	9,14	12,17		6,9.3
		15,17	11			8,11
373EWQ	GlobalFiler™					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11,11
		13,14	14,16	28,31.2	15,16	X,Y
		20,20			19,20	6,9.3
		15,17	11			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 2 - STR Results

3AVCCG	PowerPlex® Fusion 5C, Applied Biosystems VeriFiler Plus (SoftGenetics GeneMarker HID 2.9)					
	16,3,17	17,19	11,14	15,17	12,13	12,17
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11			2	
3GVR2P	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
3LNT2H	Identifiler® Plus					
		17,19		15,17	12,13	
2	8,12	11,15			11	9,12
	13,14	14,16	28,31.2		X,Y	11,12
	20				6,9.3	8,11
	15,17					
3LV6VU	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
3M7NZX	PowerPlex® Fusion 6C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17	19,20	6,9.3	8,11
	15,17	11	16	18		
3MYVP3	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
3NW4XL	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	

TABLE 1

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

Item 2 - STR Results

3X4NGH	Identifiler® Plus					
		17,19		15,17	12,13	
2	8,12	11,15			11	9,12
	13,14	14,16	28,31.2		X,Y	11,12
	20				6,9.3	8,11
	15,17					
3X7JUL	GlobalFiler™					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
3XLRWV	PowerPlex®					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
3ZCU3J	PowerPlex® Fusion 6C					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17	19,20	6,9.3	8,11
	15,17	11	16	18		
42YVB4	PowerPlex® Fusion					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
44QUP3	GlobalFiler™					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
4CEQFH	Identifiler® Plus					
		17,19		15,17	12,13	
2	8,12	11,15			11	9,12
	13,14	14,16	28,31.2		X,Y	11,12
	20				6,9.3	8,11
	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

4K9UJE	Identifiler® Plus					
		17,19		15,17	12,13	
2		8,12	11,15		11,11	9,12
		13,14	14,16	28,31.2	X,Y	11,12
		20,20			6,9.3	8,11
		15,17				
4TGNCL	GlobalFiler™					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11,11
		13,14	14,16	28,31.2	15,16	X,Y
		20,20			19,20	6,9.3
		15,17	11			2
4WPHRK	GlobalFiler™					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11,11
		13,14	14,16	28,31.2	15,16	X,Y
		20,20			19,20	6,9.3
		15,17	11			2
692882	PowerPlex® Fusion					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11
		13,14	14,16	28,31.2	15,16	X,Y
		20	9,14	12,17		6,9.3
		15,17	11			8,11
6AM3GM	GlobalFiler™ Express					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11
		13,14	14,16	28,31.2	15,16	X,Y
		20			19,20	6,9.3
		15,17	11			8,11
6BPLPJ	VeriFiler Plus					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11,11
		13,14	14,16	28,31.2	15,16	X,Y
		20,20	9,14	12,17		6,9.3
		15,17				8,11
6CZJ32	PowerPlex® Fusion					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11
		13,14	14,16	28,31.2	15,16	X,Y
		20	9,14	12,17		6,9.3
		15,17	11			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 2 - STR Results

6HEP4C	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
6JCQEB	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
6L7MQB	PowerPlex® Fusion 5C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
6N9HKL	GlobalFiler™ Express					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
6NCX2T	PowerPlex® Fusion 5C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
6QWX2A	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
772P8J	GlobalFiler™ (STRmix)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	

TABLE 1

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

Item 2 - STR Results

78HUPH	GlobalFiler™ (STRmix)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
7BZ264	PowerPlex® Fusion 5C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
7K3GTN	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
7NRR2U	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
7QVMKW	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
7V4RCW	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
83EMF4	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				

TABLE 1

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

Item 2 - STR Results

88WL9Q	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
8TWML	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
8UNZTE	PowerPlex® Fusion 6C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17	19,20	6,9.3	8,11
	15,17	11	16	18		
8WV7HL	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
8XMBNE	PowerPlex® Fusion 6C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17	19,20	6,9.3	8,11
	15,17	11	16	18		
93WV4Y	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
963D6F	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	

TABLE 1

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

Item 2 - STR Results

968K33	PowerPlex® Fusion					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
98VXKL	PowerPlex® Fusion					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
9URQPN	GlobalFiler™					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
9XMGVZ	PowerPlex® Fusion					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
A7DFQE	GlobalFiler™					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
AACUFP	PowerPlex® Fusion					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
ABQ89R	PowerPlex® Fusion 5C					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				

TABLE 1

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

Item 2 - STR Results

ACHE7A	GlobalFiler™ (STRmix)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
AG9UNP	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
AGFPKH	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
ANTV38	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
AP24XK	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
APBP4G	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
AT3AB6	PowerPlex® Fusion 5C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				

TABLE 1

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

Item 2 - STR Results

AYCEEQ	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
AYD32W	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
B3VN8P	PowerPlex® Fusion 6C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17	19,20	6,9.3	8,11
	15,17	11	16	18		
BKFDKQ	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
BQHJZT	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
BTJET4	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
BVBNRC	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	

TABLE 1

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

Item 2 - STR Results

BWHWPB	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
BY9YWJ	PowerPlex® Fusion 5C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
C2CXX6	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
C6EXX2	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
CBJUJM	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
CCULQH	PowerPlex® Fusion 5C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
CNH23W	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				

TABLE 1

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

Item 2 - STR Results

CVPEBF	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
CW3TW4	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
CXG7P8	GlobalFiler™ (STRMix)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
DCMBUX	Identifiler® Plus					
	-	17,19	-	15,17	12,13	-
2	8,12	11,15	-	-	11	9,12
	13,14	14,16	28,31.2	-	X,Y	11,12
	20	-	-	-	6,9.3	8,11
	15,17	-	-	-	-	
DDHLYD	GlobalFiler™ Express					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
DDL2FK	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
DHVHMM	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				

TABLE 1

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

Item 2 - STR Results

DKZVMA	GlobalFiler™ (STRmix)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
DN4WEJ	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
DW88D9	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
DWFTH6	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
DYZP2P	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
E3C6H8	GlobalFiler™ (STRMix)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
EBD4NN	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				

TABLE 1

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

Item 2 - STR Results

EC6CL7	esi17					
		16.3,17	17,19	11,14	15,17	
2			11,15	14,16	18,21	9,12
		13,14	14,16	28,31.2	15,16	X,Y
		20,20			19,20	6,9.3
		15,17				
EE6PXX	Identifiler® Plus					
		-	17,19	-	15,17	12,13
2		8,12	11,15	-	-	11
		13,14	14,16	28,31.2	-	X,Y
		20	-	-	-	6,9.3
		15,17	-	-	-	-
EECHBD	GlobalFiler™					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11,11
		13,14	14,16	28,31.2	15,16	X,Y
		20,20			19,20	6,9.3
		15,17	11			2
EF2ZX8	GlobalFiler™					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11,11
		13,14	14,16	28,31.2	15,16	X,Y
		20,20			19,20	6,9.3
		15,17	11			2
EQ67ZL	PowerPlex® Fusion 5C					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11,11
		13,14	14,16	28,31.2	15,16	X,Y
		20,20	9,14	12,17		6,9.3
		15,17	11			8,11
EW8F8E	PowerPlex® Fusion					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11,11
		13,14	14,16	28,31.2	15,16	X,Y
		20,20	9,14	12,17		6,9.3
		15,17	11			8,11
EZCQFB	GlobalFiler™ Express					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11
		13,14	14,16	28,31.2	15,16	X,Y
		20			19,20	6,9.3
		15,17	11			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 2 - STR Results

F43QN3	PowerPlex® Fusion 6C (GeneMapper ID-X 1.4)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17	19,20	6,9.3	8,11
	15,17	11	16	18		
FB2BU6	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
FBCU8C	GlobalFiler™ (STRmix)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
FUEVQ9	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
FW6364	PowerPlex® 21					
	16,3,17	17,19		15,17	12,13	12,17
2	8,12	11,15		18,21	11,11	9,12
	13,14	14,16	28,31.2		X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17					
FXW2DA	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
FYHDHB	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	

TABLE 1

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

Item 2 - STR Results

G2FB79	GlobalFiler™					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11,11 9,12
		13,14	14,16	28,31.2	15,16	X,Y 11,12
		20,20			19,20	6,9.3 8,11
		15,17	11			2
G6YAHH	PowerPlex® Fusion 5C					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11 9,12
		13,14	14,16	28,31.2	15,16	X,Y 11,12
		20	9,14	12,17		6,9.3 8,11
		15,17	11			
GANYUE						
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11,11 9,12
		13,14	14,16	28,31.2	15,16	X,Y 11,12
		20,20	9,14	12,17		6,9.3 8,11
		15,17	11			
GH4NHE	GlobalFiler™					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11,11 9,12
		13,14	14,16	28,31.2	15,16	X,Y 11,12
		20,20			19,20	6,9.3 8,11
		15,17	11			2
GHKPKG	PowerPlex® Fusion 5C					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11,11 9,12
		13,14	14,16	28,31.2	15,16	X,Y 11,12
		20,20	9,14	12,17		6,9.3 8,11
		15,17	11			
GJVFW	GlobalFiler™ (STRmix)					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11,11 9,12
		13,14	14,16	28,31.2	15,16	X,Y 11,12
		20,20			19,20	6,9.3 8,11
		15,17	11			2
GL6L62	PowerPlex® Fusion 5C					
		16.3,17	17,19	11,14	15,17	12,13
2		8,12	11,15	14,16	18,21	11,11 9,12
		13,14	14,16	28,31.2	15,16	X,Y 11,12
		20,20	9,14	12,17		6,9.3 8,11
		15,17	11			

TABLE 1

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

Item 2 - STR Results

GVN6EY	PowerPlex® Fusion 5C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
H7RLWG	PowerPlex® Fusion 6c					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17	19,20	6,9.3	8,11
	15,17	11	16	18		
HHHAU3	Identifiler® Plus					
		17,19		15,17	12,13	
2	8,12	11,15			11,11	9,12
	13,14	14,16	28,31.2		X,Y	11,12
	20,20				6,9.3	8,11
	15,17					
HNKN9C	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
HNMEHF	PowerPlex® Fusion 6C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17	19,20	6,9.3	8,11
	15,17	11	16	18		
J996GC	PowerPlex® Fusion 5C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
JA2BM4	GlobalFiler™ Express					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	

TABLE 1

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

Item 2 - STR Results

JCPP4R	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
JUKJFP	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
JWVJ6	GlobalFiler™ (STRmix)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
K2XRGQ	PowerPlex® Fusion (BulletProof Probabilistic Genotyping Software)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,13	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
KGT6X8	GlobalFiler™ Express					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
KHWM74	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
KPMAQ9	GlobalFiler™ Express					
	16,3,17	17,19	11,14	15,17	12,13	NT
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	NT	NT	19,20	6,9.3	8,11
	15,17	11	NT	NT	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

KR2MLW	GlobalFiler™ (STRmix)						
		16,3,17	17,19	11,14	15,17	12,13	
	2	8,12	11,15	14,16	18,21	11	9,12
		13,14	14,16	28,31.2	15,16	X,Y	11,12
		20			19,20	6,9.3	8,11
	15,17	11			2		
KTW9EN	PowerPlex® Fusion 5C						
		16,3,17	17,19	11,14	15,17	12,13	
	2	8,12	11,15	14,16	18,21	11	9,12
		13,14	14,16	28,31.2	15,16	X,Y	11,12
		20	9,14	12,17		6,9.3	8,11
	15,17	11					
KXND9R	GlobalFiler™						
		16,3,17	17,19	11,14	15,17	12,13	
	2	8,12	11,15	14,16	18,21	11	9,12
		13,14	14,16	28,31.2	15,16	X,Y	11,12
		20			19,20	6,9.3	8,11
	15,17	11			2		
L9H3C7	GlobalFiler™ Express						
		16,3,17	17,19	11,14	15,17	12,13	
	2	8,12	11,15	14,16	18,21	11	9,12
		13,14	14,16	28,31.2	15,16	X,Y	11,12
		20			19,20	6,9.3	8,11
	15,17	11			2		
L9LLK4	PowerPlex® Fusion 5C						
		16,3,17	17,19	11,14	15,17	12,13	
	2	8,12	11,15	14,16	18,21	11,11	9,12
		13,14	14,16	28,31.2	15,16	X,Y	11,12
		20,20	9,14	12,17		6,9.3	8,11
	15,17	11					
LENMP4	GlobalFiler™						
		16,3,17	17,19	11,14	15,17	12,13	
	2	8,12	11,15	14,16	18,21	11,11	9,12
		13,14	14,16	28,31.2	15,16	X,Y	11,12
		20,20			19,20	6,9.3	8,11
	15,17	11			2		
LFE3K8	NGM SElect						
		14,15,16,3,17	17,18,19	11,14	14,15,17,18		
	2		11,12,15	13,14,16	18,19,21		9,11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	
		20,22			18.2,19,20,30.2	6,7,9.3	
	15,16,17,18						

TABLE 1

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

Item 2 - STR Results

LFGRVW	PowerPlex® Fusion FC					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
LH8M2D	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
LRT3GZ	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
MAQMRU	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
MCW7QF	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
MHKRKV	PowerPlex® Fusion 6C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17	19,20	6,9.3	8,11
	15,17	11	16	18		
MPLY9B	PowerPlex® Fusion 5C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				

TABLE 1

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

Item 2 - STR Results

MRU39D	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
MTL9E7	PowerPlex® Fusion 5C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
MXEGGR	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
N28ZW	Identifiler® Plus					
		17,19		15,17	12,11	
2	8,12	11,15			11	9,12
	13,14	14,16	28,31.2		X,Y	11,12
	20				6,9.3	8,11
	15,17					
N6C8VZ	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
N74MQ4	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
NBKQWE	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				

TABLE 1

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

Item 2 - STR Results

NBWNQX	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
NBWNTJ	PowerPlex® ESI 16 Fast					
	16,3,17	17,19	11,14	15,17		
2	8,12	11,15	14,16	18,21		9,12
	13,14	14,16	28,31.2	15,16	X,Y	
	20,20				6,9.3	
	15,17					
NCWFCK	PowerPlex® Fusion 5C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
NFQG88	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
NKALUA	PowerPlex® Fusion 6C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17	19,20	6,9.3	8,11
	15,17	11	16	18		
NN3KAZ	GlobalFiler™ (STRMIX)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
NPBWR2	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	

TABLE 1

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

Item 2 - STR Results

NR949L	PowerPlex® Fusion 5c					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
NX9GX3	PowerPlex® Fusion 5c					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
PCM6QX	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
PCTBC2	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
PG4GUU	PowerPlex® 21					
	16,3,17	17,19		15,17	12,13	12,17
2	8,12	11,15		18,21	11,11	9,12
	13,14	14,16	28,31.2		X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17					
PK2RY2	GlobalFiler™ Express					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
PPVR7A	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	

TABLE 1

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

Item 2 - STR Results

PX2UVF	PowerPlex® Fusion 5C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
QEBPF3	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
QGUVPX	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
QGXKPN	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
QL697V	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
QLDUBR	GlobalFiler™ (STRmix)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
QMMZFF	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				

TABLE 1

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

Item 2 - STR Results

QNXXVC	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
QQ8QZJ	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
QXXVK4	GlobalFiler™ Express					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
R3YYC	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
RKCM4W	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
RL8X8M	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
RP893M	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	

TABLE 1

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

Item 2 - STR Results

RXJAV3	GlobalFiler™					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
T46GW8	GlobalFiler™					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
T63UHE	PowerPlex® Fusion					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
T9V8QW	PowerPlex® Fusion					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
T9YM84	PowerPlex® Fusion					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
TCYMQ9	GlobalFiler™					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
TG4NDW	GlobalFiler™ (STRmix)					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	

TABLE 1

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

Item 2 - STR Results

TH6KV8	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
TJDTQK	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
TXWEDY	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
TXX6NN	GlobalFiler™ (STRmix)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
TZXGZF	PowerPlex® Fusion 5C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
U79WGJ	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
UHXP2Y	GlobalFiler™ Express					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	

TABLE 1

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

Item 2 - STR Results

UJAL2X	PowerPlex® Fusion 6C (mRMP by Familias3)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17	19,20	6,9.3	8,11
	15,17	11	16	18		
UJERZK	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
UJU9TT	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
V4WJCM	GlobalFiler™ (STRmix)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
V66PJV	GlobalFiler™ PCR Amplification Kit					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
V8AH9N	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
VMMQAR	GlobalFiler™ (STRmix)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	

TABLE 1

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

Item 2 - STR Results

VQPKC3	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
VQR3KY	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
VXRVR	GlobalFiler™ (STRmix)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
VXLEBL	PowerPlex® Fusion 5C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
VYJRW	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
VYM8DZ	PowerPlex® Fusion 5C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
W64Z36	PowerPlex®					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				

TABLE 1

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

Item 2 - STR Results

W6PRXB	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
W8D4Y3	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
WAJTX6	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
WGU2BY	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
WHY872	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
WNZH4U	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
WPN74Z	PowerPlex® Fusion 5C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				

TABLE 1

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

Item 2 - STR Results

WRBTU3	PowerPlex® ESX 17 Fast					
	16,3,17	17,19	11,14	15,17		
2		11,15	14,16	18,21		9,12
	13,14	14,16	28,31.2	15,16	X,Y	
	20,20			19,20	6,9.3	
	15,17					
WU2XJT	GlobalFiler™					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
WXKWV3	PowerPlex® 5C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
X3PAZE	Identifiler® Plus					
	-	17,19	-	15,17	12,13	-
2	8,12	11,15	-	-	11	9,12
	13,14	14,16	28,31.2	-	X,Y	11,12
	20	-	-	-	6,9.3	8,11
	15,17	-	-	-	-	
X9JYPY						
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
XAAZUM	GlobalFiler™ (STRmix v2.6.3 - as reference profile)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
XCGJTH	PowerPlex® Fusion 5C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				

TABLE 1

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

Item 2 - STR Results

XRY4J4	PowerPlex® Fusion					
	16.3,17	17,19	11,14	15,17	12,13	
	2	8,12	11,15	14,16	18,21	11
		13,14	14,16	28,31.2	15,16	X,Y
		20	9,14	12,17		6,9.3
	15,17	11				8,11
<hr/>						
XVRCEW	GlobalFiler™					
	16.3,17	17,19	11,14	15,17	12,13	
	2	8,12	11,15	14,16	18,21	11,11
		13,14	14,16	28,31.2	15,16	X,Y
		20,20			19,20	6,9.3
	15,17	11			2	8,11
<hr/>						
XVU3PL	PowerPlex® Fusion 5C					
	16.3,17	17,19	11,14	15,17	12,13	
	2	8,12	11,15	14,16	18,21	11,11
		13,14	14,16	28,31.2	15,16	X,Y
		20,20	9,14	12,17		6,9.3
	15,17	11	--	--	--	8,11
<hr/>						
XYBH2Y	PowerPlex® Fusion					
	16.3,17	17,19	11,14	15,17	12,13	
	2	8,12	11,15	14,16	18,21	11,11
		13,14	14,16	28,31.2	15,16	X,Y
		20,20	9,14	12,17		6,9.3
	15,17	11				8,11
<hr/>						
Y3LXZP	GlobalFiler™					
	16.3,17	17,19	11,14	15,17	12,13	
	2	8,12	11,15	14,16	18,21	11
		13,14	14,16	28,31.2	15,16	X,Y
		20			19,20	6,9.3
	15,17	11			2	8,11
<hr/>						
YCYZCH	PowerPlex® Fusion 5C					
	16.3,17	17,19	11,14	15,17	12,13	
	2	8,12	11,15	14,16	18,21	11
		13,14	14,16	28,31.2	15,16	X,Y
		20	9,14	12,17		6,9.3
	15,17	11				8,11
<hr/>						
YEP2G7	GlobalFiler™					
	16.3,17	17,19	11,14	15,17	12,13	
	2	8,12	11,15	14,16	18,21	11,11
		13,14	14,16	28,31.2	15,16	X,Y
		20,20			19,20	6,9.3
	15,17	11			2	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 2 - STR Results

YNQB3A	PowerPlex® Fusion 5C					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
YRPUV	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
YVLPBN	GlobalFiler™ (STRmix)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	11			2	
Z3C2KC	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
ZCNJ9	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				
ZCPJGN	GlobalFiler™ (STRmix)					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11,11			2	
ZQDGRY	PowerPlex® Fusion					
	16,3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20	9,14	12,17		6,9.3	8,11
	15,17	11				

TABLE 1

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

Item 2 - STR Results

ZQFZZV	PowerPlex® Fusion					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20	9,14	12,17		6,9.3	8,11
	15,17	11				
ZQUFZQ	Identifiler® Direct					
		17,19		15,17	12,13	
2	8,12	11,15			11,11	9,12
	13,14	14,16	28,31.2		X,Y	11,12
	20,20				6,9.3	8,11
	15,17					
ZTJQ9W	GlobalFiler™ (STRmix)					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11,11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20,20			19,20	6,9.3	8,11
	15,17	11			2	
ZUBVEN	GlobalFiler™					
	16.3,17	17,19	11,14	15,17	12,13	
2	8,12	11,15	14,16	18,21	11	9,12
	13,14	14,16	28,31.2	15,16	X,Y	11,12
	20			19,20	6,9.3	8,11
	15,17	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 3 - STR Results

2BQNFEX	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,14,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
2CLEH6	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
2HYXZC	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
2VJEUJ	Identifiler® Plus					
	-	17,18,19	-	14,15,17,18	9,11,12,13	-
3	8,9,12	11,12,15	-	-	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	-	X,Y	10,11,12
	20,22	-	-	-	6,7,9.3	8,11
	15,16,17,18	-	-	-	-	
2Y47EE	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
2YJNWQ	PowerPlex®					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
373EWQ	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	

TABLE 1

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

Item 3 - STR Results

3AVCCG	PowerPlex® Fusion 5C, Applied Biosystems VeriFiler Plus (SoftGenetics GeneMarker HID 2.9)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	12,17,20
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11			2	
3GVR2P	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
3LNT2H	Identifiler® Plus					
		17,18,19		14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15			11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2		X,Y	10,11,12
	20,22				6,7,9.3	8,11
	15,16,17,18					
3LV6VU	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
3M7NZX	PowerPlex® Fusion 6C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20	18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11	16	18		
3MYVP3	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
3NW4XL	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	

TABLE 1

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

Item 3 - STR Results

3X4NGH	Identifiler® Plus					
		17,18,19		14,15,17,18	9,11,12,13	
3		8,9,12	11,12,15		11,12	9,11,12
		13,14,17	12,14,16,17.2	28,30,31.2	X,Y	10,11,12
		20,22			6,7,9.3	8,11
		15,16,17,18				
3X7JUL	GlobalFiler™					
		14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13
3		8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22			18.2,19,20,30.2	6,7,9.3
		15,16,17,18	11		2	
3XLRWV	PowerPlex®					
		14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13
3		8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20		6,7,9.3
		15,16,17,18	11			8,11
3ZCU3J	PowerPlex® Fusion 6C (STRmix)					
		14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13
3		8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20	18.2,19,20,30.2	6,7,9.3
		15,16,17,18	11	16	18	8,11
42YVB4	PowerPlex® Fusion					
		14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13
3		8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20		6,7,9.3
		15,16,17,18	11			8,11
44QUP3	GlobalFiler™					
		14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13
3		8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22			18.2,19,20,30.2	6,7,9.3
		15,16,17,18	11		2	8,11
4CEQFH	Identifiler® Plus					
			17,[18],19		14,15,17,18	[9],[11],12,13
3		8,[9],12	11,[12],15			11,[12]
		13,14,[17]	[12],14,16,[17.2]	28,30,31.2		X,Y
		20,[22]				6,7,9.3
		15,16,17,18				8,11

TABLE 1

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

Item 3 - STR Results

4K9UJE	Identifiler® Plus	17,18,19		14,15,17,18	9,11,12,13	
3		8,9,12	11,12,15		11,12	9,11,12
		13,14,17	12,14,16,17.2	28,30,31.2	X,Y	10,11,12
		20,22			6,7,9.3	8,11
		15,16,17,18				
4TGNCL	GlobalFiler™	17,18,19	11,14	14,15,17,18	9,11,12,13	
3		8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22		18.2,19,20,30.2	6,7,9.3	8,11
		15,16,17,18	11		2	
4WPHRK	GlobalFiler™	17,18,19	11,14	14,15,17,18	9,11,12,13	
3		8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22		18.2,19,20,30.2	6,7,9.3	8,11
		15,16,17,18	11		2	
692882	PowerPlex® Fusion	17,18,19	11,14	14,15,17,18	9,11,12,13	
3		8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20	6,7,9.3	8,11
		15,16,17,18	11			
6AM3GM	GlobalFiler™	17,18,19	11,14	14,15,17,18	9,11,12,13	
3		8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22		18.2,19,20,30.2	6,7,9.3	8,11
		15,16,17,18	11		2	
6BPLPJ	VeriFiler Plus	17,18,19	11,14	14,15,17,18	9,11,12,13	12,17,20
3		8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20	6,7,9.3	8,11
		15,16,17,18			2	
6CZJ32	PowerPlex® Fusion	17,18,19	11,14	14,15,17,18	9,11,12,13	
3		8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20	6,7,9.3	8,11
		15,16,17,18	11			

TABLE 1

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

Item 3 - STR Results

6HEP4C	GlobalFiler™					
	14,15,16.3,17	[17,18],19	11,[14]	14,15,17,18	9,11,12,13	
3	8,[9,12]	[11,12],15	13,14,16	[18,19],21	11,[12]	[9,11],12
	[13],14,[17]	12,14,16,17.2	[28],30,[31.2]	[14],15,[16]	X,[Y]	[10],11,[12]
	20,[22]			18.2,19,20,30.2	6,[7,9.3]	[8],11
	15,16,17,18	11			2	
6JCQEB	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
6L7MQB	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
6N9HKL	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
6NCX2T	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
6QWX2A	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
772P8J	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	

TABLE 1

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

Item 3 - STR Results

78HUPH	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
7BZ264	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
7K3GTN	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
7NRR2U	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
7QVMKW	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
7V4RCW	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
83EMF4	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,[14]	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,[12]	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,[Y]	10,11,12
	20,[22]	9,12,13,14	12,17,20		6,7,9.3	[8],11
	15,16,17,18	11				

TABLE 1

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

Item 3 - STR Results

88WL9Q	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
8TWML	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
8UNZTE	PowerPlex® Fusion 6C (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20	18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11	16	18		
8WV7HL	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
8XMBNE	PowerPlex® Fusion 6C (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20	18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11	16	18		
93WV4Y	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
963D6F	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	

TABLE 1

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

Item 3 - STR Results

968K33	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
98VXKL	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
9URQPN	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
9XMGVZ	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
A7DFQE	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
AACUFP	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
ABQ89R	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				

TABLE 1

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

Item 3 - STR Results

ACHE7A	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
AG9UNP	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
AGFPKH	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
ANTV38	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
AP24XK	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
APBP4G	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
AT3AB6	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				

TABLE 1

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

Item 3 - STR Results

AYCEEQ	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
AYD32W	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
B3VN8P	PowerPlex® Fusion 6C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20	18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11	16	18		
BKFDKQ	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
BQHJZT	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
BTJET4	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
BVBNRC	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	

TABLE 1

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

Item 3 - STR Results

BWHWPB	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
BY9YWJ	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
C2CXX6	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
C6EXX2	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
CBJUJM	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
CCULQH	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
CNH23W	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				

TABLE 1

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

Item 3 - STR Results

CVPEBF	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
CW3TW4	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
CXG7P8	GlobalFiler™ (STRMIX)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
DCMBUX	Identifiler® Plus					
	-	17,18,19	-	14,15,17,18	9,11,12,13	-
3	8,9,12	11,12,15	-	-	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	-	X,Y	10,11,12
	20,22	-	-	-	6,7,9.3	8,11
	15,16,17,18	-	-	-	-	
DDHLYD	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
DDL2FK	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
DHVHMM	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				

TABLE 1

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

Item 3 - STR Results

DKZVMA	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
DN4WEJ	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
DW88D9	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
DWFTH6	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11,Q
	15,16,17,18	10,11			2	
DYZP2P	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
E3C6H8	GlobalFiler™ (STRMix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
EBD4NN	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				

TABLE 1

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

Item 3 - STR Results

EC6CL7	ESI17					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18		
3		11,12,15	13,14,16	18,19,21		9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	
	20,22			18.2,19,20,30.2	6,7,9.3	
	15,16,17,18					
EE6PXX	Identifiler® Plus					
	-	17,18,19	-	14,15,17,18	9,11,12,13	-
3	8,9,12	11,12,15	-	-	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	-	X,Y	10,11,12
	20,22	-	-	-	6,7,9.3	8,11
	15,16,17,18	-	-	-	-	-
EECHBD	GlobalFiler™ (STRMIX)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
EF2ZX8	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
EQ67ZL	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
EW8F8E	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
EZCQFB	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	

TABLE 1

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

Item 3 - STR Results

F43QN3	PowerPlex® Fusion 6C (GeneMapper ID-X 1.4)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20	18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11	16	18		
FB2BU6	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
FBCU8C	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
FUEVQ9	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
FW6364	PowerPlex® 21 (STRmix v2.7.0)					
	14,15,16.3,17	17,18,19		14,15,17,18	9,11,12,13	12,17,20
3	8,9,12	11,12,15		18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2		X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18					
FXW2DA	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
FYHDHB	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	

TABLE 1

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

Item 3 - STR Results

G2FB79	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
G6YAHH	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
GANYUE						
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
GH4NHE	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
GHKPKG	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
GJVWFV	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
GL6L62	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				

TABLE 1

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

Item 3 - STR Results

GVN6EY	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20		6,7,9.3
	15,16,17,18	11			8,11	
H7RLWG	PowerPlex® Fusion 6c					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20	18.2,19,20,30.2	6,7,9.3
	15,16,17,18	11	16	18	8,11	
HHHAU3	Identifiler® Plus					
		17,18,19		14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15		11,12	9,11,12
		13,14,17	12,14,16,17.2	28,30,31.2		X,Y
		20,22				6,7,9.3
	15,16,17,18				8,11	
HNKN9C	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20		6,7,9.3
	15,16,17,18	11			8,11	
HNMEHF	PowerPlex® Fusion 6C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20	18.2,19,20,30.2	6,7,9.3
	15,16,17,18	11	16	18	8,11	
J996GC	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20		6,7,9.3
	15,16,17,18	11			8,11	
JA2BM4	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22			18.2,19,20,30.2	6,7,9.3
	15,16,17,18	11			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 3 - STR Results

JCPP4R	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
JUKJFP	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
JWVJ6	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
K2XRGG	PowerPlex® Fusion (BulletProof Probabilistic Genotyping Software)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
KGT6X8	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
KHWM74	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
KPMAQ9	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	NT
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	NT	NT	18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11	NT	NT	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

KR2MLW	GlobalFiler™ (STRmix)					
		14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22			18.2,19,20,30.2	6,7,9.3
	15,16,17,18	10,11			2	
KTW9EN	PowerPlex® Fusion 5C					
		14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20		6,7,9.3
	15,16,17,18	11			8,11	
KXND9R	GlobalFiler™					
		14,15,16.3,17	17,18,19	11,[14]	14,15,17,18	9,11,12,13
	3	8,[9],[12]	[11],[12],15	[13],14,[16]	[18],[19],21	11,[12]
		[13],14,[17]	12,14,16,17.2	28,30,31.2	[14],15,[16]	X,[Y]
		20,[22]			18.2,19,20,30.2	6,[7],[9.3]
	15,16,17,18	11			[8],11	
L9H3C7	GlobalFiler™					
		14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22			18.2,19,20,30.2	6,7,9.3
	15,16,17,18	11			8,11	
L9LLK4	PowerPlex® Fusion 5C					
		14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20		6,7,9.3
	15,16,17,18	11			8,11	
LENMP4	GlobalFiler™					
		14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22			18.2,19,20,30.2	6,7,9.3
	15,16,17,18	11			8,11	
LFE3K8	NGM SElect					
		16.3,17	17,19	11,14	15,17	
	3		11,15	14,16	18,21	9,12
		13,14	14,16	28,31.2	15,16	X,Y
		20,20			19,20	6,9.3
	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 3 - STR Results

LFGRWV	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
LH8M2D	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
LRT3GZ	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
MAQMRU	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
MCW7QF	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
MHKRKV	PowerPlex® Fusion 6C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20	18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11	16	18		
MPLY9B	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				

TABLE 1

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

Item 3 - STR Results

MRU39D	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
MTL9E7	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
MXEGGR	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
N28ZW	Identifiler® Plus					
		17,18,19		14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15			11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2		X,Y	10,11,12
	20,22				6,7,9.3	8,11
	15,16,17,18					
N6C8VZ	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
N74MQ4	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
NBKQWE	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				

TABLE 1

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

Item 3 - STR Results

NBWNQX	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22			18.2,19,20,30.2	6,7,9.3
	15,16,17,18	11			2	8,11
NBWNTJ	PowerPlex® ESI 16 Fast (EuroForMix v. 2.3.0)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18		
	3		11,12,15	13,14,16	18,19,21	9,11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22				6,7,9.3
	15,16,17,18					
NCWFCK	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20		6,7,9.3
	15,16,17,18	11			8,11	
NFQG88	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20		6,7,9.3
	15,16,17,18	11			8,11	
NKALUA	PowerPlex® Fusion 6C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20	18.2,19,20,30.2	6,7,9.3
	15,16,17,18	11	16	18	8,11	
NN3KAZ	GlobalFiler™ (STRMIX)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22			18.2,19,20,30.2	6,7,9.3
	15,16,17,18	11			2	
NPBWR2	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22			18.2,19,20,30.2	6,7,9.3
	15,16,17,18	11			2	

TABLE 1

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

Item 3 - STR Results

NR949L	PowerPlex® Fusion 5c					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
NX9GX3	PowerPlex® Fusion 5c					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
PCM6QX	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
PCTBC2	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
PG4GUU	PowerPlex® 21 (STRmix v2.3)					
	14,15,16.3,17	17,18,19		14,15,17,18	9,11,12,13	12,17,20
3	8,9,12	11,12,15		18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2		X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18					
PK2RY2	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
PPVR7A	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	

TABLE 1

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

Item 3 - STR Results

PX2UVF	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
QEBPF3	GlobalFiler™					
	[14],[15],16.3,17	17,[18],19	11,14	[14],15,17,[18]	[9],[11],12,13	
3	8,[9],12	11,[12],15	[13],14,16	18,[19],21	11,11,[12]	9,[11],12
	13,14,[17]	[12],14,16,[17.2]	28,[30],31.2	[14],15,16	X,Y	[10],11,12
	20,20,[22]			[18.2],19,20,[30.2]	6,[7],9.3	8,11
	15,[16],17,[18]	11			2	
QGUVPX	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
QG XKPN	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
QL697V	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
QLDUBR	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
QMMZFF	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				

TABLE 1

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

Item 3 - STR Results

QNXXVC	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
QQ8QZJ	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
QXXVK4	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
R3YYC	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
RKCM4W	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
RL8X8M	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
RP893M	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	

TABLE 1

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

Item 3 - STR Results

RXJAV3	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
T46GW8	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
T63UHE	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
T9V8QW	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
T9YM84	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
TCYMQ9	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
TG4NDW	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	

TABLE 1

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

Item 3 - STR Results

TH6KV8	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
TJDTQK	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
TXWEDY	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
TXX6NN	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
TZXGZF	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
U79WGJ	GlobalFiler™					
	14,[15],16.3,17	17,[18],19	11,[14]	14,15,17,18	[9],11,12,13	
3	8,[9],12	11,[12],15	13,14,[16]	[18,19],21	11,[12]	[9,11],12
	[13],14,[17]	[12],14,16,[17.2]	28,30,31.2	[14],15,[16]	X,[Y]	[10],11,12
	20,[22]			[18.2],19,20,30.2	6,[7],9.3	[8],11
	15,16,17,[18]	11			2	
UHXP2Y	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	

TABLE 1

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

Item 3 - STR Results

UJAL2X	PowerPlex® Fusion 6C (LR by LRMix Studio)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20	18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11	16	18		
UJERZK	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
UJU9TT	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
V4WJCM	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
V66PJV	GlobalFiler™ PCR Amplification Kit					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
V8AH9N	GlobalFiler™					
	14,15,16.3,17	[17,18],19	11,[14]	14,15,17,18	9,11,12,13	
3	8,[9,12]	[11,12],15	13,14,16	[18,19],21	11,[12]	[9,11],12
	[13],14,[17]	12,14,16,17.2	[28],30,[31]	[14],15,[16]	X,[Y]	[10],11,[12]
	20,[22]			18.2,19,20,30.2	6,[7,9.3]	[8],11
	15,16,17,18	11			2	
VMMQAR	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	

TABLE 1

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

Item 3 - STR Results

VQPKC3	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
VQR3KY	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
VXRVR	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
VXLEBL	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
VYJRW	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
VYM8DZ	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
W64Z36	PowerPlex®					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				

TABLE 1

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

Item 3 - STR Results

W6PRXB	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20		6,7,9.3
	15,16,17,18	11			8,11	
W8D4Y3	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22			18.2,19,20,30.2	6,7,9.3
	15,16,17,18	11			8,11	2
WAJTX6	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20		6,7,9.3
	15,16,17,18	11			8,11	
WGU2BY						
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20		6,7,9.3
	15,16,17,18	11			8,11	
WHY872	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22			18.2,19,20,30.2	6,7,9.3
	15,16,17,18	11			8,11	2
WZNH4U	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22			18.2,19,20,30.2	6,7,9.3
	15,16,17,18	11			8,11	2
WPN74Z	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20		6,7,9.3
	15,16,17,18	11			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 3 - STR Results

WRBTU3	PowerPlex® ESX 17 Fast					
	14,15,16.3,17	[17,18],19	11,[14]	14,15,17,18		
3		[11,12],15	[13],14,[16]	18,19,21		[9,11],12
	[13],14,[17]	12,14,16,17.2	[28],30,[31.2]	[14],15,[16]	X,[Y]	
	20,[22]			18.2,19,20,30.2	6,[7,9.3]	
	15,16,17,18					
WU2XJT	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
WXKWV3	PowerPlex® 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
X3PAZE	Identifiler® Plus					
	-	17,18,19	-	14,15,17,18	9,11,12,13	-
3	8,9,12	11,12,15	-	-	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	-	X,Y	10,11,12
	20,22	-	-	-	6,7,9.3	8,11
	15,16,17,18	-	-	-	-	
X9JYPY						
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
XAAZUM	GlobalFiler™ (STRmix v2.6.3 - as evidence profile)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
XCGJTH	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				

TABLE 1

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

Item 3 - STR Results

XRY4J4	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20		6,7,9.3
	15,16,17,18	11			8,11	
XVRCEW	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22			18.2,19,20,30.2	6,7,9.3
	15,16,17,18	11			8,11	2
XVU3PL	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20		6,7,9.3
	15,16,17,18	11	--	--	--	8,11
XYBH2Y	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20		6,7,9.3
	15,16,17,18	11			8,11	
Y3LXZP	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22			18.2,19,20,30.2	6,7,9.3
	15,16,17,18	11			8,11	2
YCYZCH	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22	9,12,13,14	12,17,20		6,7,9.3
	15,16,17,18	11			8,11	
YEP2G7	GlobalFiler™					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
	3	8,9,12	11,12,15	13,14,16	18,19,21	11,12
		13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y
		20,22			18.2,19,20,30.2	6,7,9.3
	15,16,17,18	11			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 3 - STR Results

YNQB3A	PowerPlex® Fusion 5C					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
YRPUV	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
YVLPBN	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
Z3C2KC	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
ZCNJ9	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
ZCPJGN	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
ZQDGRY	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				

TABLE 1

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

Item 3 - STR Results

ZQFZZV	PowerPlex® Fusion					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22	9,12,13,14	12,17,20		6,7,9.3	8,11
	15,16,17,18	11				
ZQUFZQ	Identifiler® Plus					
		17,18,19		14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15			11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2		X,Y	10,11,12
	20,22				6,7,9.3	8,11
	15,16,17,18					
ZTJQ9W	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	
ZUBVEN	GlobalFiler™ (STRmix)					
	14,15,16.3,17	17,18,19	11,14	14,15,17,18	9,11,12,13	
3	8,9,12	11,12,15	13,14,16	18,19,21	11,12	9,11,12
	13,14,17	12,14,16,17.2	28,30,31.2	14,15,16	X,Y	10,11,12
	20,22			18.2,19,20,30.2	6,7,9.3	8,11
	15,16,17,18	11			2	

TABLE 1

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

Item 4 - STR Results

3AVCCG	PowerPlex® Fusion 5C, Applied Biosystems VeriFiler Plus (SoftGenetics GeneMarker HID 2.9)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	13,16,17,20
4	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	11			2	
3GVR2P	GlobalFiler™					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
6HEP4C	GlobalFiler™					
	[14,15],15.3,16	[18,19],22,24	[11],13,14	[14],17,18	[9,11],12,13	
4	8,[9,10]	12,[13,15]	13,[14],17	[19],21,24	8,[11],12	11,[12]
	12,[14],15,[17]	[12],13,16,[17.2]	30,[32.2]	[14,15],16,17	X,[Y]	10,[11,12]
	18,[20],22			18.2,28.2,30.2,37	5,[6],8	8,11
	[14],16,[18]	11			2	
8UNZTE	PowerPlex® Fusion 6C					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20	18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11	17	18		
8XMBNE	PowerPlex® Fusion 6C					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20	18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11	17	18		
LFE3K8	NGM SElect					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18		
4		12,[13],15	13,14,[17]	19,21,[24]		11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,Y	
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	
	14,16,18					
NBWNQX	GlobalFiler™					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	

TABLE 1

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

Item 4 - STR Results

NBWNTJ	PowerPlex® ESI 16 Fast (EuroForMix v. 2.3.0)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18		
4		12,13,15	13,14,17	19,21,24		11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	
	18,20,22				5,6,7,8	
	14,16,18					
TXWEDY	GlobalFiler™					
	14,15	18,19	11,13,14	14,18	9,11,13	
4	8,9,10	12,15	13,14	19,21	8,11,12	11,12
	12,14,17	12,13,17.2	30	14,15,16	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2	6,7,8	11
	14,16,18					
UJAL2X	PowerPlex® Fusion 6C (LR by LRmix Studio)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20	18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11	17	18		
V66PJV	GlobalFiler™ PCR Amplification Kit					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
V8AH9N	GlobalFiler™					
	[14,15],15.3,16	[18,19],22,24	[11],13,14	[14],17,18	[9,11],12,13	
4	8,[9,10]	12,[13,15]	13,[14],17	[19],21,24	8,[11],12	11,[12]
	12,[14],15,[17]	[12],13,16,[17.2]	30,[32.2]	[14,15],16,17	X,[Y]	10,[11,12]
	18,[20],22			18.2,28.2,30.2,37	5,[6],8	8,12
	[14],16,[18]	11			2	
ZQUFZQ	Identifiler® Plus					
		18,19,22,24		14,17,18	9,11,12,13	
4	8,9,10	12,13,15			8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2		X,Y	10,11,12
	18,20,22				5,6,7,8	8,11
	14,16,18					

TABLE 1

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

Item 4e - STR Results

2BQNFEX	PowerPlex® Fusion					
	14,15,15.3	18,19,22,24	11,13	14,17,18	9,11,12	
4e	8,9,10	12,13,15	13,14	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30	14,15	X,Y	10,11
	18,20,22	9,12,13	20		5,6,7,8	8,11
	14,16,18	ND				
2CLEH6	PowerPlex® Fusion					
	14,15,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11
	18,20,22	9,12,13	13,20		5,6,7,8	8,11
	14,16,18					
2HYXZC	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11
	[14],16,18				2	
2VJEUJ	Identifiler® Plus					
	-	18,19,22,24	-	14,17,18	9,11,12,13	-
4e	8,9,10	12,13,15	-	-	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	-	X,Y	10,11,12
	18,20,22	--	-	-	5,6,7,8	8,11
	14,16,18	-	-	-	-	
2Y47EE	PowerPlex® Fusion 5C					
	14,15,15.3,16	18,19,22,24	11,13	14,18	9,11,12	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,17	12,13,16,17.2	30,32.2	14,15,17	X,Y	10,11
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18					
2YJNWQ	PowerPlex®					
	14,15,[15.3,16]	18,19,[22,24]	11,11,[13,14]	14,[17],18	9,11,[12,13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13,16],17.2	30,30,[32.2]	14,15,[16]	X,X,[Y]	10,11,[12]
	[18],20,22	[9],12,13	[13,17],20,20		[5],6,7,[8]	[8],11,11
	[14],16,18	[11],ND				
373EWQ	GlobalFiler™					
	14,15	18,19,[24]	11,11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14	19,21	[8],11,12	11,12
	[12],14,[15],17	12,[13],17.2	30,30,[32.2]	14,15,[16],[17]	X,X,[Y]	10,11
	[18],20,22			18.2,30.2	[5],6,7,[8]	11,11
	[14],16,18					

TABLE 1

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

Item 4e - STR Results

3LNT2H	Identifiler® Plus					
		18,19,22,24		14,17,18	9,11,12,13	
4e	8,9,10	12,13,15			8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2		X,Y	10,11,12
	18,20,22				5,6,7,8	8,11
	14,16,18					
3LV6VU	GlobalFiler™					
	14,15,15.3,16	18,19,22,24	11,13,14	14,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21	8,11,12	11,12
	14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	16,18				2	
3M7NZX	PowerPlex® Fusion 6C					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20	18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11	17	18		
3MYVP3	PowerPlex® Fusion					
	14,15	18,19,22,24	11	14,17,18	9,11,12	
4e	8,9,10	12,15	13,14	19,21,24	11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15	X,Y	10,11
	18,20,22	12,13	20		5,6,7,8	11
	14,16,18	NR				
3NW4XL	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2	[5],6,7,[8]	11
	[14],16,18	11			2	
3X4NGH	Identifiler® Plus					
		18,19,22,24		14,17,18	9,11,12,13	
4e	8,9,10	12,13,15			8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2		X,Y	10,11,12
	18,20,22				5,6,7,8	8,11
	14,16,18					
3X7JUL	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,30,[32.2]	14,15,[16],[17]	X,X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11,11
	[14],16,18	[11]			[2]	

TABLE 1

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

Item 4e - STR Results

3XLRWV	PowerPlex®					
		14,15	18,19,22,24	11,14	14,17,18	9,11
4e		8,9	12,13,15	13,14,17	19,21,24	8,11,12
		12,14,15,17	12,13,17.2	30	14,15	X,Y
		18,20,22	9,12,13	20		5,6,7,8
		14,16,18	ND			8,11
3ZCU3J	PowerPlex® Fusion 6C					
		14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13
4e		8,9,10	12,13,15	13,14,17	19,21,24	8,11,12
		12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y
		18,20,22	9,12,13	13,17,20	18.2,28.2,30.2,37	10,11,12
		14,16,18	11	17	18	8,11
42YVB4	PowerPlex® Fusion					
		14,15,16	18,19,22,24	11,14	14,17,18	9,11,12,13
4e		8,9	12,13,15	13,14	19,21,24	8,11,12
		14,17	12,16,17.2	30,32.2	14,15,17	X,Y
		18,20,22	12,13	20		5,6,7,8
		14,16,18				8,11
44QUP3	GlobalFiler™					
		14,15,15.3	18,19,22,24	11,14	14,18	9,11,12
4e		8,9,10	12,13,15	13,14,17	19,21	11,12
		12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y
		18,20,22			18.2,30.2	5,6,7,8
		16,18	11			11
						2
4CEQFH	Identifiler® Plus					
			18,19,[22],[24]		14,[17],18	9,11,[12],[13]
4e		8,9,[10]	12,[13],15			[8],11,12
		14,[15],17	12,[13],[16],17.2	30		X,[Y]
		[18],20,22				[5],6,7,[8]
		[14],16,18				[8],11
4K9UJE	Identifiler® Plus					
			18,19		14,18	9,11
4e		8,9	12,15			11,12
		14,17	12,17.2	30,30		X,X
		20,22				6,7
		16,18				11,11
4TGNCL	GlobalFiler™					
		14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13
4e		8,9,10	12,13,15	13,14,17	19,21,24	8,11,12
		12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y
		18,20,22			18.2,28.2,30.2,37	5,6,7,8
		14,16,18	11			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 4e - STR Results

4WPHRK	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,11,[13],[14]	14,[17],18	9,11,[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,30,[32.2]	14,15,[16],[17]	X,X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11,11
	[14],16,18	[11]			[2]	
692882	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11	
4e	8,9,10	12,13,15	13,14	19,21	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15	X,Y	10,11,12
	18,20,22	12,13	13,17,20		5,6,7,8	8,11
	16,18					
6AM3GM	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11
	[14],16,18	[11]			[2]	
6BPLPJ	VeriFiler Plus					
	14,15,(15.3,16)	18,19	11,11,(13,14)	14,18	9,11,(12,13)	17,20(13)
4e	8,9	12,15	13,14,(17)	19,21	(8),11,12	11,12
	(12),14,17	12,17.2	30,30,(32.2)	14,15,(16,17)	X,X	10,11
	(18),20,22	(9),12,13	(13,17),20,20		(5),6,7,(8)	11,11
	(14),16,18				(2)	
6CZJ32	PowerPlex® Fusion					
	14,15	18,19,24	11	14,17,18	9,11	
4e	8,9	12,13,15	13,14	19,21	11,12	11,12
	14,15,17	12,13,17.2	30	14,15	X,Y	10,11
	18,20,22	12,13	20		6,7,8	11
	14,16,18					
6JCQEB	GlobalFiler™ (STRmix (SP Fraction only))					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
6L7MQB	PowerPlex® Fusion 5C					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15	X,Y	10,11,12
	18,20,22	9,12,13	20		5,6,7,8	8,11
	14,16,18	11				

TABLE 1

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

Item 4e - STR Results

6N9HKL	GlobalFiler™					
	14,15,[15.3,16]	18,19,[22,24]	11,[13,14]	14,[17],18	9,11,[12,13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13,16],17.2	30,[32.2]	14,15,[16,17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11
	[14],16,18	[11]			[2]	
6NCX2T	PowerPlex® Fusion 5C					
	14,15,[15.3,16]	18,19,[22,24]	11,11,[13,14]	14,[17],18	9,11,[12,13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13,16],17.2	30,30,[32.2]	14,15,[16]	X,X,[Y]	10,11,[12]
	[18],20,22	12,13	[13,17],20,20		[5],6,7,[8]	[8],11,11
	[14],16,18	ND [11]				
6QWX2A	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,16,17	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	5,6,7,8	[8],11
	[14],16,18	11			2	
772P8J	GlobalFiler™ (STRmix)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	11
	14,16,18	11			2	
78HUPH	GlobalFiler™ (STRmix)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
7BZ264	PowerPlex® Fusion 5C					
	14,15,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30	14,15,16	X,Y	10,11,12
	18,20,22	9,12,13	13,20		5,6,7,8	8,11
	14,16,18	ND				
7K3GTN	GlobalFiler™					
	14,15,[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9	12,[13],15	13,14,[17]	19,21	11,12	11,12
	[12],14,17	12,[13],[16],17.2	30	14,15,[16],[17]	X,[Y]	10,11
	[18],20,22			18.2,30.2	[5],6,7,[8]	11
	16,18	11			2	

TABLE 1

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

Item 4e - STR Results

7NRR2U	GlobalFiler™					
	14,15,15.3,16	18,19,22	11,13,14	14,18	9,11,12	
4e	8,9	12,13,15	13,14,17	19,21	8,11,12	11,12
	12,14,15,17	12,16,17.2	30,32.2	14,15,16	X,Y	10,11
	18,20,22			18.2,30.2,37	5,6,7,8	11
	14,16,18				2	
7QVMKW	PowerPlex® Fusion					
	14,15	18,19,22	11	14,18	9,11	
4e	8,9	12,15	13,14	19,21	11,12	11,12
	14,15,17	12,13,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
7V4RCW	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11,13	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	ND				
83EMF4	PowerPlex® Fusion					
	14,15	18,19,[22],[24]	11,[13]	14,18	9,11	
4e	8,9	12,[13],15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X,[Y]	10,11
	20,22	12,13	20		6,7	11
	16,18					
88WL9Q	GlobalFiler™					
	14,15,15.3	18,19,22	11,13,14	14,17,18	9,11,12,13	
4e	8,9	12,13,15	13,14,17	19,21	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	16,18	11			2	
8TVVML	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11,13	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15	X,Y	10,11
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	ND				
8WV7HL	PowerPlex® Fusion					
	14,15,[15.3],[16]	18,19,[22]	11,11,[13],[14]	14,[17],18	9,11,[12]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,30,[32.2]	14,15,[17]	X,X,[Y]	10,11
	[18],20,22	[9],12,13	20,20		[5],6,7,[8]	[8],11,11
	[14],16,18	ND				

TABLE 1

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

Item 4e - STR Results

93WV4Y	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	11				
963D6F	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11
	[18],20,22			18.2,30.2,[37]	[5],6,7,[8]	11
	[14],16,18	11			2	
968K33	PowerPlex® Fusion					
	14,15	18,19	11	14,18	9,11,12,13	
4e	8,9	12,13,15	13,14	19,21	11,12	11,12
	12,14,15,17	12,13,17.2	30	14,15	X	10,11
	18,20,22	12,13	20		5,6,7,8	11
	14,16,18					
98VXKL	PowerPlex® Fusion					
	14,15,(15.3),(16)	18,19,(22),(24)	11,(13),(14)	14,(17),18	9,11,(12),(13)	
4e	8,9,(10)	12,(13),15	13,14	19,21,(24)	(8),11,12	11,12
	(12),14,(15),17	12,(13),(16),17.2	30,(32.2)	14,15,(16),(17)	X,(Y)	10,11,(12)
	(18),20,22	(9),12,13	(13),(17),20		(5),6,7,(8)	(8),11
	(14),16,18	(11)				
9URQPN	GlobalFiler™					
	14,15	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9	12,13,15	13,14,17	19,21	8,11,12	11,12
	12,14,17	12,13,17.2	30	14,15,16,17	X,Y	10,11
	18,20,22			18.2,30.2	5,6,7,8	11
	14,16,18				2	
9XMGVZ	PowerPlex® Fusion					
	14,15	18,19,22	11	14,17,18	9,11	
4e	8,9	12,13,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X,Y	10,11
	18,20,22	12,13	20		5,6,7	11
	16,18					
A7DFQE	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11
	[14],16,18				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

AACUFP	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18					
ABQ89R	PowerPlex® Fusion					
	14,15,16	18,19,24	11	14,17,18	9,11	
4e	8,9	12,13,15	13,14	19,21,24	11,12	11,12
	12,14,15,17	12,13,16,17.2	30	14,15	X,Y	10,11
	20,22	12,13	20		5,6,7,8	11
	14,16,18					
ACHE7A	GlobalFiler™					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
AG9UNP	GlobalFiler™					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
AGFPKH	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,30,[32.2]	14,15,[16],[17]	X,X,[Y]	10,11
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	11,11
	[14],16,18	NR,[11]			NR,[2]	
ANTV38	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22	11,13	14,17,18	9,11,12	
4e	8,9,10	12,13,15	13,14	19,21	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16	X,Y	10,11,12
	18,20,22	9,12,13	17,20		5,6,7,8	11
	16,18	11				
AP24XK	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11
	[14],16,18	11			2	

TABLE 1

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

Item 4e - STR Results

APBP4G	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,11,[13],[14]	14,[17],18	9,11,[12],[13]	N/A
4e	8,9,[10]	12,15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,30,[32.2]	14,15,[16],[17]	X,X,[X],[Y]	10,11
	[18],20,22	N/A	N/A	18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11,11
	[14],16,18	[11]	N/A	N/A	[2]	
AT3AB6	PowerPlex® Fusion 5C					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22	[9],12,13	[13],[17],20		[5],6,7,[8]	[8],11
	[14],16,18	[11]				
AYCEEQ	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15,16	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	11				
AYD32W	GlobalFiler™					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	11
	14,16,18	11			2	
B3VN8P	PowerPlex® Fusion 6C					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20	18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11	17	18		
BKFDKQ	GlobalFiler™ (STRmix)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
BQHJZT	PowerPlex® Fusion					
	14,15	18,19,22	11,14	14,18	9,11	
4e	8,9,10	12,13,15	13,14	19,21	11,12	11,12
	12,14,17	12,13,17.2	30	14,15	X,Y	10,11
	18,20,22	12,13	20		5,6,7,8	11
	16,18					

TABLE 1

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

Item 4e - STR Results

BTJET4	GlobalFiler™ (STRmix)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
BVBNRC	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[24]	11,11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,30,[32.2]	14,15,[16],[17]	X,X,[Y]	10,11,[12]
	[18],20,22			18.2,30.2,[37]	[5],6,7,[8]	[8],11,11
	[14],16,18	[11]			[2]	
BWHWPB	GlobalFiler™					
	14,15	18,19	11,[13],[14]	14,[17],18	9,11	
4e	8,9	12,[13],15	13,14,[17]	19,21	11,12	11,12
	14,17	12,[13],[16],17.2	30,[32.2]	14,15,[16]	X,[Y]	10,11
	[18],20,22			18.2,30.2	[5],6,7,[8]	11
	16,18	11			2	
BY9YWJ	PowerPlex® Fusion 5C					
	14,15,(15.3),(16)	18,19,(22),(24)	11,11,(13),(14)	14,(17),18	9,11,(12),(13)	
4e	8,9,(10)	12,(13),15	13,14,(17)	19,21,(24)	(8),11,12	11,12
	(12),14,(15),17	12,(13),(16),17.2	30,30,(32.2)	14,15,(16),(17)	X,X,(Y)	10,11,(12)
	(18),20,22	(9),12,13	(13),(17),20,20		(5),6,7,(8)	(8),11,11
	(14),16,18	ND				
C2CX6	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11
	[14],16,18	11			2	
C6EXX2	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,30,[32.2]	14,15,[16],[17]	X,X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11,11
	[14],16,18	NR,[11]			NR,[2]	
CBJUJM	GlobalFiler™					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	

TABLE 1

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

Item 4e - STR Results

CCULQH	PowerPlex® Fusion 5C					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22	9,12,13	13,20		5,6,7,8	8,11
	14,16,18	11				
CNH23W	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	11				
CVPEBF	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,30,[32.2]	14,15,[16],[17]	X,X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2	[5],6,7,[8]	[8],11,11
	[14],16,18	NR,[11]			NR,[2]	
CW3TW4	GlobalFiler™ (STRmix)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
CXG7P8	GlobalFiler™ (STRMIX)					
	14,15	18,19,22,24	11,14	14,18	9,11,12	
4e	8,9,10	12,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,17	12,13,17.2	30,32.2	14,15,16,17	X,Y	10,11
	18,20,22			18.2,28.2,30.2	5,6,7,8	8,11
	14,16,18	11			2	
DCMBUX	Identifiler® Plus					
	-	18,19,22,24	-	14,17,18	9,11,12,13	-
4e	8,9,10	12,13,15	-	-	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	-	X,Y	10,11,12
	18,20,22	-	-	-	5,6,7,8	8,11
	14,16,18	-	-	-	-	
DDHLYD	GlobalFiler™					
	14,15,[15.3,16]	18,19,[22,24]	11,[13,14]	14,[17],18	9,11,[12,13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13,16],17.2	30,[32.2]	14,15,[16,17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11
	[14],16,18	[11]			[2]	

TABLE 1

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

Item 4e - STR Results

DDL2FK	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	11				
DHVHMM	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14	19,21,24	11,12	11,12
	12,14,15,17	12,13,17.2	30,32.2	14,15,17	X,Y	10,11,12
	18,20,22	9,12,13	20		5,6,7,8	11
	14,16,18	11				
DKZVMA	GlobalFiler™ (STRmix)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
DN4WEJ	GlobalFiler™					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
DW88D9	GlobalFiler™					
	14,15,[15.3]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21	[8],11,12	11,12
	[12],14,17	12,[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2	[5],6,7,[8]	11
	16,18	11			2	
DWFTH6	GlobalFiler™ (STRmix)					
	13,14,15,15.3,Q	18,19,22,Q	10,11,13,Q	14,17,18,Q	9,11,13,Q	
4e	8,9,10,Q	11,12,14,15,Q	12,13,14,17,Q	18,19,20,21,24,Q	11,12,Q	11,12,Q
	14,15,17,Q	12,17.2,Q	29,30,Q	14,15,16,17,Q	X,Y	10,11,Q
	18,20,21,22,Q			18.2,30.2,29.2,37,Q	6,7,8,Q	11,Q
	14,16,18,Q	11,Q			2	
DYZP2P	PowerPlex® Fusion					
	14,15,[15.3],[16]	18,19,[22],[24]	11,11	14,[17],18	9,11,[12]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,30,[32.2]	14,15,[16],[17]	X,X,[Y]	10,11,[12]
	[18],20,22	[9],12,13	[17],20,20		[5],6,7,[8]	11,11
	[14],16,18	11				

TABLE 1

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

Item 4e - STR Results

E3C6H8	GlobalFiler™ (STRMix)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
EBD4NN	PowerPlex® Fusion					
	14,15,[15.3,16]	18,19,[22]	11,11,[13,14]	14,[17],18	9,11,[12,13]	
4e	8,9,[10]	12,[13],15	13,14	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13,16],17.2	30,30,[32.2]	14,15,[17]	X,X,[Y]	10,11
	[18],20,22	12,13	[13,17],20,20		[5],6,7,[8]	11,11
	[14],16,18					
EC6CL7	ESI 17					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18		
4e		12,13,15	13,14,17	19,21,24		11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	
	14,16,18					
EE6PXX	Identifiler® Plus					
	-	18,19,22,24	-	14,17,18	9,11,12,13	-
4e	8,9,10	12,13,15	-	-	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	-	X,Y	10,11,12
	18,20,22	-	-	-	5,6,7,8	8,11
	14,16,18	-	-	-	-	
EECHBD	GlobalFiler™ (STRMIX)					
	13,14,14.2,15,15.3,16	17,18,19,22,Q	10,11,13,14	13,14,17,18,Q	8,9,10,11,12,13	
4e	7,8,9,10,Q	11,12,13,14,15	12,13,14,17,Q	18,19,20,21,24,Q	8,10,11,12	10,11,12,Q
	12,13,14,15,16,17,18,Q	11,12,13,16,16.2,17.2,Q	29,30,32.2,Q	14,15,16,17	X,Y	9,10,11,12,Q
	18,19,20,21,22,Q			17.2,18,18.2,28.2,29.2,30.2,37,Q	5,6,7,8	10,11,Q
	14,15,16,17,18,Q	11			2	
EF2ZX8	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2	[5],6,7,[8]	11
	[14],16,18				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

EQ67ZL	PowerPlex® Fusion 5C					
	14,15	18,19,22,24	11,13,14	14,18	9,11	
4e	8,9	12,13,15	13,14	19,21	11,12	11,12
	14,17	12,13,17.2	30,32.2	14,15,17	X,Y	10,11
	20,22	12,13	20		5,6,7,8	11
	14,16,18					
EW8F8E	PowerPlex® Fusion					
	14,15,[15.3]	18,19,[22],[24]	11	14,[17],18	9,11,[12]	
4e	8,9	12,[13],15	13,14	19,21	11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30	14,15,[17]	X,[Y]	10,11
	[18],20,22	12,13	20		[5],6,7,[8]	11
	[14],16,18					
EZCQFB	GlobalFiler™					
	14,15,[15.3,16]	18,19,[22,24]	11,[13,14]	14,[17],18	9,11,[12,13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13,16],17.2	30,[32.2]	14,15,[16,17]	X,[Y]	10,11
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11
	[14],16,18	[11]			[2]	
F43QN3	PowerPlex® Fusion 6C (GeneMapper ID-X 1.4)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16	X,Y	10,11,12
	18,20,22	9,12,13	17,20	18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11	17	18		
FB2BU6	GlobalFiler™					
	14,15	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2	[5],6,7,[8]	11
	16,18	11			2	
FBCU8C	GlobalFiler™ (STRmix)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
FUEVQ9	GlobalFiler™					
	14,15,[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9	12,[13],15	13,14,[17]	19,21	[8],11,12	11,12
	14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11
	[18],20,22			18.2,30.2	[5],6,7,[8]	11
	[14],16,18				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

FW6364	PowerPlex® 21 (STRmix v2.7.0)					
	14,15,15.3,16	18,19,22,24		14,17,18	9,11	13,16,17,20
4e	8,9,10	12,13,15		19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30		X,Y	10,11,12
	18,20,21,22	9,12,13	13,20		5,6,7,8	11
	14,16,18					
FXW2DA	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,30,[32.2]	14,15,[16],[17]	X,X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	11,11
	[14],16,18	[11]			[2]	
FYHDHB	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,30	14,15,[16],[17]	X,X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11,11
	[14],16,18	[11]			[2]	
G2FB79	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,30,[32.2]	14,15,[16],[17]	X,[Y]	10,11
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11,11
	[14],16,18	[11]			[2]	
G6YAHH	PowerPlex® Fusion 5C					
	14,15,[15.3,16]	18,19,[22,24]	11,[13,14]	14,[17],18	9,11,[12,13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16,17]	X,[Y]	10,11,[12]
	[18],20,22	12,13	[13,17],20		[5],6,7,[8]	[8],11
	[14],16,18	[11]				
GANYUE						
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15	X,Y	10,11,12
	18,20,22	9,12,13	17,20		5,6,7,8	8,11
	14,16,18	ND				
GH4NHE	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,11,[13],[14]	14,[17],18	9,11,[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,30,[32.2]	14,15,[16],[17]	X,X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11,11
	[14],16,18	[11]			[2]	

TABLE 1

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

Item 4e - STR Results

GHKPKG	PowerPlex® Fusion 5C					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12	
	4e 8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16	X,Y	10,11,12
	18,20,22	9,12,13	20		5,6,7,8	11
	14,16,18	0				
GJVFW	GlobalFiler™ (STRmix)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
	4e 8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11		2		
GL6L62	PowerPlex® Fusion 5C					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
	4e 8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	11,11
	14,16,18	11				
GVN6EY	PowerPlex® Fusion 5C					
	14,15,15.3,16	18,19,22	11,14	14,17,18	9,11,12	
	4e 8,9,10	12,13,15	13,14	19,21,24	11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15	X,Y	10,11
	20,22	12,13	20		5,6,7,8	11
	14,16,18	NR				
H7RLWG	PowerPlex® Fusion 6c					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12]	
	4e 8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22	[9],12,13	[17],20	18.2,[28.2],30.2,[37]	[5],6,7,[8]	11
	[14],16,18	[11]	[17]	[18]		
HHHAU3	Identifiler® Plus					
		18,19		14,18	9,11	
	4e 8,9	12,15			11,12	11,12
	14,17	12,17.2	30,30		X,X	10,11
	20,22				6,7	11,11
	16,18					
HNKN9C	PowerPlex® Fusion					
	14,15	18,19	11,11	14,18	9,11	
	4e 8,9	12,[13],15	13,14	19,21	11,12	11,12
	[12],14,17	12,[13],17.2	30,30	14,15	X,X,[Y]	10,11
	20,22	12,13	20,20		[5],6,7,[8]	11,11
	16,18	ND				

TABLE 1

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

Item 4e - STR Results

HNMEHF	PowerPlex® Fusion 6C					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	11,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15	X,[Y]	10,11,[12]
	[18],20,22	[9],12,13	[17],20	18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11
	[14],16,18	11	17	18		
J996GC	PowerPlex® Fusion 5C					
	14,15,[15.3],[16]	18,19,[24]	11,[13],[14]	14,[17],18	9,11,[13]	
4e	8,9,[10]	12,[13],15	13,14	19,21,[24]	11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15	X,X	10,11,[12]
	[18],20,22	12,13	[13],20		[5],6,7,[8]	11
	[14],16,18	ND				
JA2BM4	GlobalFiler™					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
JCPP4R	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11	14,17,18	9,11,12,13	
4e	8,9	12,13,15	13,14,17	19,21,24	11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,17	X,Y	10,11,12
	18,20,22	9,12,13	20		5,6,7,8	8,11
	14,16,18					
JUKJFP	PowerPlex® Fusion					
	14,15	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15,[16]	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22	[9],12,13	[13],[17],20		[5],6,7,[8]	[8],11
	[14],16,18	ND				
JWVJ6	GlobalFiler™ (STRmix)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
K2XRGQ	PowerPlex® Fusion					
	14,15	18,19,24	11,11	14,18	9,11	
4e	8,9	12,15	13,14	19,21,24	11,12	11,12
	14,17	12,13,16,17.2	30,32.2	14,15	X,X	10,11
	18,20,22	12,13	20,20		5,6,7,8	11,11
	14,16,18					

TABLE 1

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

Item 4e - STR Results

KGT6X8	GlobalFiler™					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
	4e 8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
KHWM74	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
	4e 8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22	9,12,13	13,20		5,6,7,8	8,11
	14,16,18	11				
KPMQAQ9	GlobalFiler™					
	14,15,[15.3,16]	18,19,[22,24]	11,[13,14]	14,[17],18	9,11,[12,13]	NT
	4e 8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13,16],17.2	30,[32.2]	14,15,[16,17]	X,[Y]	10,11,[12]
	[18],20,22	NT	NT	18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11
	[14],16,18	[11]	NT	[2]		
KR2MLW	GlobalFiler™ (STRmix)					
	13,14,15,16,Q	17,18,19,22,24,Q	10,11,13,14,Q	13,14,17,18,Q	8,9,10,11,12,13,Q	
	4e 7,8,9,Q	11,12,13,14,15,Q	12,13,14,17,Q	18,19,20,21,24,Q	8,10,11,12,Q	10,11,12,Q
	12,13,14,15,16,17,Q	11,12,13,16,16.2,17.2,Q	29,30,32.2,Q	13,14,15,16,Q	X,Y	9,10,11,Q
	18,19,20,21,22,Q			17.2,18,18.2,29.2,30.2,37,Q	5,6,7,8	10,11,Q
	15,16,17,18,Q			2		
KTW9EN	PowerPlex® Fusion 5C					
	14,15	18,19	11,14	14,17,18	9,11,12,13	
	4e 8,9,10	12,13,15	13,14,17	19,21,24	11,12	11,12
	12,14,15,17	12,13,17.2	30,32.2	14,15,17	X,Y	10,11,12
	18,20,22	9,12,13	20		5,6,7,8	11
	14,16,18					
KXND9R	GlobalFiler™					
	14,15	18,19,[24]	11,[13],[14]	14,18	9,11	
	4e 8,9	12,[13],15	13,14,[17]	19,21	11,12	11,12
	14,[15],17	12,[13],[16],17.2	30	14,15,[16],[17]	X,[Y]	10,11
	[18],20,22			18.2,30.2	6,7,[8]	11
	[14],16,18			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

L9H3C7	GlobalFiler™					
	14,15,[15.3,16]	18,19,[22,24]	11,[13,14]	14,[17],18	9,11,[12,13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13,16],17.2	30,[32.2]	14,15,[16,17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2	[5],6,7,[8]	[8],11
	[14],16,18	[11]			[2]	
L9LLK4	PowerPlex® Fusion 5C					
	14,15,[15.3,16]	18,19,[22,24]	11,11,[13,14]	14,[17],18	9,11,[12,13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13,16],17.2	30,30,[32.2]	14,15,[16,17]	X,[Y]	10,11,[12]
	[18],20,22	[9],12,13	[13,17],20,20		[5],6,7,[8]	[8],11,11
	[14],16,18	[11]				
LENMP4	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,30,[32.2]	14,15,[16],[17]	X,X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11,11
	[14],16,18	[11]			[2]	
LFGRVW	PowerPlex® Fusion 5C					
	14,15,15.3	18,19,22,24	11,11	14,18	9,11,12	
4e	8,9,10	12,13,15	13,14	19,21,24	11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15	X,Y	10,11,12
	20,22	12,13	13,20		5,6,7,8	11,11
	16,18					
LH8M2D	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	11				
LRT3GZ	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	11
	[14],16,18	11			2	
MAQMRU	GlobalFiler™					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	

TABLE 1

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

Item 4e - STR Results

MCW7QF	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11	14,17,18	9,11,12,13	
4e	8,9	12,13,15	13,14	19,21,24	11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15	X,Y	10,11,12
	18,20,22	12,13	20		5,6,7,8	11
	14,16,18					
MHKRKV	PowerPlex® Fusion 6C					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11	
4e	8,9	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30	14,15,16,17	X,Y	10,11,12
	18,20,22	12,13	13,20	18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11	17			
MPLY9B	PowerPlex® Fusion 5C					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15	X,Y	10,11
	18,20,22	9,12,13	17,20		5,6,7,8	8,11
	14,16,18	ND				
MRU39D	PowerPlex® Fusion					
	14,15,15.3	18,19,22,24	11,14	14,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21	11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15	X,Y	10,11
	18,20,22	12,13	13,20		5,6,7,8	8,11
	14,16,18	ND				
MTL9E7	PowerPlex® Fusion 5C					
	14,15,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	11
	14,16,18					
MXEGGR	PowerPlex® Fusion					
	14,15,[15.3],[16]	18,19	11	14,[17],18	9,11	
4e	8,9	12,[13],15	13,14	19,21	11,12	11,12
	[12],14,17	12,[13],17.2	30	14,15	X,[Y]	10,11
	[18],20,22	12,13	20		[5],6,7,[8]	11
	16,18	NR				
N28ZW	Identifiler® Plus					
		18,19,22,24		14,17,18	9,11,12,13	
4e	8,9,10	12,13,15			8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2		X,Y	10,11
	18,20,22				5,6,7,8	8,11
	14,16,18					

TABLE 1

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

Item 4e - STR Results

N6C8VZ	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,30,[32.2]	14,15,[16],[17]	X,X,[Y]	10,11
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11,11
	[14],16,18	[11]			[2]	
N74MQ4	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11
	[14],16,18	11			2	
NBKQWE	PowerPlex® Fusion					
	14,15	18,19,22	11	14,17,18	9,11	
4e	8,9	12,13,15	13,14	19,21,24	11,12	11,12
	12,14,17	12,13,17.2	30	14,15	X,Y	10,11
	18,20,22	12,13	20		5,6,7,8	11
	16,18					
NCWFCK	PowerPlex® Fusion 5C					
	14,15,15.3	18,19,24	11,13,14	14,18	9,11,13	
4e	8,9	12,13,15	13,14	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,17.2	30,32.2	14,15	X,Y	10,11
	20,22	12,13	13,20		5,6,7,8	11,11
	14,16,18					
NFQG88	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	11				
NKALUA	PowerPlex® Fusion 6C					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22	[9],12,13	[13],[17],20	18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11
	[14],16,18	[11]	[17]	[18]		
NN3KAZ	GlobalFiler™ (STRMIX)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	

TABLE 1

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

Item 4e - STR Results

NPBWR2	GlobalFiler™					
	14,15	18,19	11,[13],[14]	14,[17],18	9,11	
4e	8,9	12,15	13,14	19,21	[8],11,12	11,12
	14,17	12,[16],17.2	30	14,15,[16],[17]	X	10,11
	[18],20,22			18.2,30.2	[5],6,7	11
	16,18	-			-	
NR949L	PowerPlex® Fusion 5c					
	14,15	18,19	11	14,18	9,11	
4e	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	20,22	12,13	20		6,7	11
	16,18					
NX9GX3						
	14,15	18,19	11,11	14,18	9,11	
4e	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30,30	14,15	X,X	10,11
	20,22	12,13	20,20		6,7	11,11
	16,18					
PCM6QX	GlobalFiler™ (STRmix)					
	14,15,15.3,16	18,19,22	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21	8,11,12	11,12
	12,14,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18				2	
PCTBC2	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,30,[32.2]	14,15,[16],[17]	X,X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11,11
	[14],16,18	[11]			[2]	
PG4GUU	PowerPlex® 21 (STRmix v2.3)					
	14,15,15.3,16	19,22,24		14,17,18	9,11,12,13	13,16,17
4e	8,9,10	12,13,15		19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2		X,Y	10,11
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18					
PK2RY2	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11
	[14],16,18	[11]			[2]	

TABLE 1

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

Item 4e - STR Results

PPVR7A	GlobalFiler™					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
	4e 8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
PX2UVF	PowerPlex® Fusion 5C					
	14,15,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
	4e 8,9,10	12,13,15	13,14	19,21,24	11,12	11,12
	12,14,15,17	12,13,16,17.2	30	14,15,16,17	X,Y	10,11
	18,20,22	9,12,13	20		5,6,7,8	11
	14,16,18	11				
QEBPF3	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22,24]	11,11,[13],[14]	14,[17],18	9,11,[12],[13]	
	4e 8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,30,[32.2]	14,15,[16],[17]	X,X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11,11
	[14],16,18	[11]		[2]		
QGUVPX	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
	4e 8,9	12,[13],15	13,14,[17]	19,21	11,12	11,12
	14,[15],17	12,[13],[16],17.2	30	14,15,[16],[17]	X,[Y]	10,11
	[18],20,22			18.2,30.2	[5],6,7,[8]	11
	[14],16,18	11		2		
QG XKPN	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22	11,13	14,17,18	9,11,12,13	
	4e 8,9	12,13,15	13,14	19,21,24	11,12	11,12
	12,14,15,17	12,13,16,17.2	30	14,15	X,Y	10,11
	18,20,22	12,13	20		5,6,7,8	8,11
	14,16,18	NR				
QL697V	GlobalFiler™					
	14,15	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
	4e 8,9	12,[13],15	13,14,[17]	19,21	11,12	11,12
	[12],14,17	12,[13],[16],17.2	30	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,30.2	[5],6,7,[8]	11
	16,18			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

QLDUBR	GlobalFiler™ (STRmix)					
	13,14,15,Q	17,18,19,22,Q	10,11,Q	13,14,17,18,Q	9,10,11,12,Q	
4e	8,9,10,Q	11,12,14,15,Q	12,13,14,17,Q	18,19,20,21,Q	8,10,11,12,Q	11,12,Q
	13,14,16,17,Q	12,16.2,17.2,Q	29,30,Q	13,14,15,Q	X	10,11,Q
	19,20,21,22,Q			17.2,18.2,29.2,30.2, Q	5,6,7,Q	11,Q
	16,17,18,Q					
QMMZFF	PowerPlex® Fusion					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22	[9],12,13	[13],[17],20		[5],6,7,[8]	[8],11
	[14],16,18	[11]				
QNXQVC	PowerPlex® Fusion					
	14,15,[15.3,16]	18,19,[22,24]	11,11,[13,14]	14,[17],18	9,11,[12,13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13,16],17.2	30,30,[32.2]	14,15,[16,17]	X,X,[Y]	10,11,[12]
	[18],20,22	[9],12,13	[13,17],20,20		[5],6,7,[8]	[8],11,11
	[14],16,18	[11]				
QQ8QZJ	PowerPlex® Fusion					
	14,15,16	18,19,22	11	14,17,18	9,11,12,13	
4e	8,9	12,13,15	13,14	19,21,24	11,12	11,12
	12,14,15,17	12,16,17.2	30	14,15,16	X,Y	10,11,12
	20,22	9,12,13	20		5,6,7,8	11
	14,16,18					
QXKVK4	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11
	[14],16,18	[11]			[2]	
R3YYC	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15	X,Y	10,11
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	16,18					

TABLE 1

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

Item 4e - STR Results

RKCM4W	GlobalFiler™	14,15,[15.3],[16]	18,19,[22],[24]	11,11,[13],[14]	14,[17],18	9,11,[12],[13]	
	4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
		[12],14,[15],17	12,[13],[16],17.2	30,30,[32.2]	14,15,[16],[17]	X,X,[Y]	10,11,[12]
		[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11,11
		[14],16,18	[11]			[2]	
RL8X8M	GlobalFiler™	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
	4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
		12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
		18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
		14,16,18	11			2	
RP893M	GlobalFiler™	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
	4e	8,9,10	12,13,15	13,14,17	19,21	8,11,12	11,12
		12,14,15,17	12,13,16,17.2	30	14,15,16,17	X,Y	10,11,12
		18,20,22			18.2,30.2,37	5,6,7,8	11
		14,16,18					
RXJAV3	GlobalFiler™	(14,15),15.3,16	(18,19),22,24	(11,11),13,14	(14),17,(18)	(9,11),12,13	
	4e	(8,9),10	(12),13,(15)	(13,14),17	(19,21),24	8,(11,12)	(11,12)
		12,(14),15,(17)	(12),13,16,(17.2)	(30,30),32.2	(14,15),16,17	(X,X),Y	(10,11),12
		18,(20,22)			(18.2,28.2,(30.2),37	5,(6,7),8	8,(11,11)
		14,(16,18)	11			2	
T46GW8	GlobalFiler™	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
	4e	8,9,10	12,13,15	13,14,17	19,21	8,11,12	11,12
		12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
		18,20,22			18.2,28.2,30.2,37	5,6,7,8	11
		14,16,18	11			2	
T63UHE	PowerPlex® Fusion	14,15,16	18,19,22	11,13,14	14,17,18	9,11	
	4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
		12,14,15,17	12,13,17.2	30	14,15	X,Y	10,11,12
		18,20,22	9,12,13	17,20		5,6,7,8	11
		14,16,18					
T9V8QW	PowerPlex® Fusion	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
	4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
		12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
		18,20,22	12,13	20		5,6,7,8	8,11
		14,16,18	ND				

TABLE 1

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

Item 4e - STR Results

T9YM84	PowerPlex® Fusion					
	14,15,[15.3],[16]	18,19,[22]	11,11,[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14	19,21,[24]	11,12	11,12
	[12],14,[15],17	12,[13],17.2	30,30,[32.2]	14,15	X,X,[Y]	10,11,[12]
	[18],20,22	[9],12,13	[13],20,20		[5],6,7,[8]	[8],11,11
	[14],16,18	ND				
TCYMQ9	GlobalFiler™					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
TG4NDW	GlobalFiler™ (STRmix)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	11
	14,16,18	11			2	
TH6KV8	PowerPlex® Fusion					
	14,15	18,19,[22],[24]	11,11,[14]	14,[17],18	9,11	
4e	8,9	12,[13],15	13,14	19,21,[24]	11,12	11,12
	[12],14,[15],17	12,[13],17.2	30,30	14,15	X,X,[Y]	10,11
	20,22	12,13	20,20		[5],6,7,[8]	[8],11,11
	[14],16,18	ND				
TJDTQK	PowerPlex® Fusion					
	14,15	18,19	11	14,17,18	9,11	
4e	8,9	12,13,15	13,14	19,21	11,12	11,12
	12,14,17	12,13,16,17.2	30	14,15	X,Y	10,11
	20,22	12,13	20		5,6,7,8	11
	14,16,18	NR				
TXX6NN	GlobalFiler™ (STRmix)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2	5,6,7,8	8,11
	14,16,18				2	
TZXGZF	PowerPlex® Fusion 5C					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22	[9],12,13	[13],[17],20		[5],6,7,[8]	[8],11
	[14],16,18	[11]				

TABLE 1

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

Item 4e - STR Results

U79WGJ	GlobalFiler™					
	14,15,[15.3,16]	18,19,[22,24]	11,[13,14]	14,18	9,11,[12]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13,16],17.2	30	14,15,[16,17]	X,[Y]	10,11
	20,22			18.2,[28.2],30.2	[5],6,7,[8]	11
	[14],16,18				2	
UHXP2Y	GlobalFiler™					
	14,15,[15.3,16]	18,19,[22,24]	11,[13,14]	14,[17],18	9,11,[12,13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13,16],17.2	30,[32.2]	14,15,[16,17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11
	[14],16,18	[11]			[2]	
UJERZK	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2	[5],6,7,[8]	[8],11
	[14],16,18	11			2	
UJU9TT	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,30,[32.2]	14,15,[16],[17]	X,X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11,11
	[14],16,18	[11]			[2]	
V4WJCM	GlobalFiler™ (STRmix)					
	13,14,15,15.3,16,Q	17,18,19,22,24,Q	10,11,14,Q	13,14,17,18,Q	8,9,10,11,12,13,Q	
4e	8,9,10,Q	11,12,13,14,15,Q	12,13,14,16,17,Q	18,19,20,21,Q	8,10,11,12,Q	10,11,12,Q
	13,14,16,17,Q	11,12,13,16,16.2,17.2,Q	29,30,32.2,Q	13,14,15,16,17,Q	X,Y	9,10,11,12,Q
	20,21,22,Q			17.2,18.2,29.2,30.2,Q	5,6,7,8,Q	10,11,Q
	15,16,17,18,Q				2	
VMMQAR	GlobalFiler™ (STRmix)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	

TABLE 1

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

Item 4e - STR Results

VQPKC3	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,17	X,Y	10,11,12
	18,20,22	12,13	17,20		5,6,7,8	11
	14,16,18	ND				
VQR3KY	PowerPlex® Fusion					
	14,15,[16]	18,19,[22],[24]	11,11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14	19,21	[8],11,12	11,12
	[12],14,17	12,[13],[16],17.2	30,30	14,15	X,X,[Y]	10,11
	[18],20,22	12,13	[17],20,20		[5],6,7,[8]	11,11
	16,18	ND				
VXRVR	GlobalFiler™ (STRmix)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18,2,30,2,37	5,6,7,8	8,11
	14,16,18	11			2	
VXLEBL	PowerPlex® Fusion 5C					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,17	X,Y	10,11,12
	18,20,22	12,13	13,17,20		5,6,7,8	8,11
	14,16,18	11				
VYJRW	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	11				
VYM8DZ	PowerPlex® Fusion 5C					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15	X,Y	10,11
	18,20,22	9,12,13	13,20		5,6,7,8	11
	14,16,18	ND				
W64Z36	PowerPlex®					
	14,15,(15.3,16)	18,19,(22,24)	11,11,(13,14)	14,(17),18	9,11,(12,13)	
4e	8,9,(10)	12,(13),15	13,14,(17)	19,21,(24)	(8),11,12	11,12
	(12),14,(15),17	12,(13,16),17.2	30,30,(32.2)	14,15,(16,17)	X,X,(Y)	10,11,(12)
	(18),20,22	(9),12,13	(13,17),20,20		(5),6,7,(8)	(8),11,11
	(14),16,18	ND(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 4e - STR Results

W6PRXB	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22	11,13,14	14,17,18	9,11,12,13	
	4e 8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	11				
W8D4Y3	GlobalFiler™					
	14,15,15.3,16	18,19,22,24	11,13,14	14,18	9,11,12,13	
	4e 8,9	12,13,15	13,14	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11				
WAJTX6	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
	4e 8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	11				
WGU2BY						
	14,15,15.3,16	18,19,22,24	11,13	14,17,18	9,11,12,13	
	4e 8,9,10	12,13,15	13,14	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	11				
WHY872	GlobalFiler™					
	14,15	18,19,22,24	11,13,14	14,17,18	9,11,13	
	4e 8,9,10	12,15	13,14	19,21	11,12	11,12
	14,17	12,13,17.2	30	14,15,16,17	X,Y	10,11
	18,20,22			18.2,28.2,30.2	5,6,7	11
	16,18			2		
WNZH4U	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
	4e 8,9	12,[13],15	13,14,[17]	19,21	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11
	[18],20,22			18.2,30.2	[5],6,7,[8]	11
	[14],16,18	11		2		
WPN74Z	PowerPlex® Fusion 5C					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
	4e 8,9,10	12,13,15	13,14	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	11				

TABLE 1

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

Item 4e - STR Results

WRBTU3	PowerPlex® ESX 17 Fast					
	14,15,[15.3,16]	18,19,[22,24]	11,[13,14]	14,[17],18		
4e		12,[13],15	13,14,[17]	19,21,[24]		11,12
	[12],14,[15],17	12,[13,16],17.2	30,[32.2]	14,15,[16,17]	X,[Y]	
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	
	[14],16,18					
WU2XJT	GlobalFiler™					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2	5,6,7,8	8,11
	14,16,18	11			2	
WXKWV3	PowerPlex® 5C					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	11				
X3PAZE	Identifiler® Plus					
	-	18,19,22,24	-	14,17,18	9,11,12,13	-
4e	8,9,10	12,13,15	-	-	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	-	X,Y	10,11,12
	18,20,22	-	-	-	5,6,7,8	8,11
	14,16,18	-	-	-	-	
X9JYPY						
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	11				
XAAZUM	GlobalFiler™ (No stats needed)					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11
	[14],16,18	[11]			[2]	
XCGJTH	PowerPlex® Fusion 5C					
	14,15	18,19,22	11,13	14,17,18	9,11,12,13	
4e	8,9	12,13,15	13,14	19,21	11,12	11,12
	12,14,15,17	12,13,16,17.2	30,30	14,15	X,Y	10,11,12
	18,20,22	12,13	20,20		5,6,7,8	8,11
	14,16,18	11				

TABLE 1

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

Item 4e - STR Results

XRY4J4	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
	4e 8,9,10	12,13,15	13,14	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	11				
XVRCEW	GlobalFiler™					
	14,15,[15.3],[16]	18,19,[22],[24]	11,[13],[14]	14,[17],18	9,11,[12],[13]	
	4e 8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],[16],17.2	30,[32.2]	14,15,[16],[17]	X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	11
	[14],16,18	11		2		
XVU3PL	PowerPlex® Fusion 5C					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
	4e 8,9,10	12,13,15	13,14	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	11,11
	14,16,18	--	--	--	--	
XYBH2Y	PowerPlex® Fusion					
	14,15,[15.3,16]	18,19,[22,24]	11,11,[13,14]	14,[17],18	9,11,[12,13]	
	4e 8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13,16],17.2	30,30,[32.2]	14,15,[16,17]	X,[Y]	10,11
	[18],20,22	12,13	[13],20,20		[5],6,7,[8]	[8],11,11
	[14],16,18	11				
Y3LXZP	GlobalFiler™ (STRmix)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
	4e 8,9,10	12,13,15	13,14,16,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11		2		
YCYZCH	PowerPlex® Fusion 5C					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
	4e 8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	11				
YEP2G7	GlobalFiler™					
	14,15,[15.3]	18,19,[22]	11,[13]	14,18	9,11,[13]	
	4e 8,9	12,15	13,14	19,21,[24]	[8],11,12	11,12
	[12],14,17	12,[16],17.2	30	14,15,[17]	X,[Y]	10,11
	[18],20,22			18.2,30.2,[37]	6,7	[8],11
	16,18	[11]		[2]		

TABLE 1

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

Item 4e - STR Results

YNQB3A	PowerPlex® Fusion 5C					
	14,15,15.3,16	18,19,22,24	11,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15	X,Y	10,11,12
	18,20,22	12,13	20,20		5,6,7,8	8,11
	14,16,18	11				
YRPUV	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,17	X,Y	10,11
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	11				
YVLPBN	GlobalFiler™ (STRmix)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
Z3C2KC	PowerPlex® Fusion					
	14,15	18,19	11	14,17,18	9,11,13	
4e	8,9	12,15	13,14	19,21	11,12	11,12
	14,17	12,17.2	30	14,15	X	10,11
	18,20,22	9,12,13	20		5,6,7	11
	16,18					
ZCNJ9	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22	9,12,13	13,17,20		5,6,7,8	8,11
	14,16,18	11				
ZCPJGN	GlobalFiler™ (STRmix)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,16,17	19,21,23,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	
ZQDGRY	PowerPlex® Fusion					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22	9,12,13	17,20		5,6,7,8	8,11
	14,16,18	ND				

TABLE 1

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

Item 4e - STR Results

ZQFZZV	PowerPlex® Fusion					
	14,15	18,19,[22]	11,11	14,18	9,11,[12]	
4e	8,9	12,[13],15	13,14	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13],17.2	30,30	14,15	X,X,[Y]	10,11
	20,22	12,13	20,20		[5],6,7,[8]	[8],11,11
	[14],16,18	ND				
ZTJQ9W	GlobalFiler™					
	14,15,[15.3,16]	18,19,[22,24]	11,11,[13,14]	14,[17],18	9,11,[12,13]	
4e	8,9,[10]	12,[13],15	13,14,[17]	19,21,[24]	[8],11,12	11,12
	[12],14,[15],17	12,[13,16],17.2	30,30,[32.2]	14,15,[16,17]	X,X,[Y]	10,11,[12]
	[18],20,22			18.2,[28.2],30.2,[37]	[5],6,7,[8]	[8],11,11
	[14],16,18	11			[2]	
ZUBVEN	GlobalFiler™ (STRmix)					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
4e	8,9,10	12,13,15	13,14,17	19,21	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11			2	

TABLE 1

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

Item 4sp - STR Results

2BQNFEX	PowerPlex® Fusion					
		15.3,16	22,24	13,14	17,18	12,13
4sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	9,12	13,17		5,8
		14,16	11			8,11
2CLEH6	PowerPlex® Fusion					
		15.3,16	22,24	13,14	17,18	12,13
4sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	9,12	13,17		5,8
		14,16	11			8,11
2HYXZC	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
4sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22			28.2,37	5,8
		14,16	11			8,11
						2
2VJEUJ	Identifiler® Plus					
		-	22,24	-	17,18	12,13
4sp		8,10	12,13	-	-	8,12
		12,15	13,16	30,32.2	-	X,Y
		18,22	-	-	-	5,8
		14,16	-	-	-	8,11
						-
2Y47EE	PowerPlex® Fusion 5C					
		15.3,16	22,24	13,14	17,18	12,13
4sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	9,12	13,17		5,8
		14,16	11			8,11
2YJNWQ	PowerPlex®					
		15.3,16	22,24	13,14	17,18	12,13
4sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	9,12	13,17		5,8
		14,16	11			8,11
373EWQ	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
4sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22			28.2,37	5,8
		14,16	11			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 4sp - STR Results

3LNT2H	Identifiler® Plus					
		22,24		17,18	12,13	
4sp	8,10	12,13			8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22				5,8	8,11
	14,16					
3LV6VU	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
3M7NZX	PowerPlex® Fusion 6C					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,[11],12
	18,22	9,12	13,17	28.2,37	5,8	8,11
	14,16	11	17	18		
3MYVP3	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
3NW4XL	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
3X4NGH	Identifiler® Plus					
		22,24		17,18	12,13	
4sp	8,10	12,13			8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22				5,8	8,11
	14,16					
3X7JUL	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	

TABLE 1

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

Item 4sp - STR Results

3XLRWV	PowerPlex®					
		15.3,16	22,24	13,14	17,18	12,13
4sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	9,12	13,17		5,8
		14,16	11			8,11
3ZCU3J	PowerPlex® Fusion 6C					
		15.3,16	22,24	13,14	17,18	12,13
4sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	9,12	13,17	28.2,37	5,8
		14,16	11	17	18	8,11
42YVB4	PowerPlex® Fusion					
		15.3,16	22,24	13,14	17,18	12,13
4sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22	9,12	13,17		5,8
		14,16	11			8,11
44QUP3	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
4sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22			28.2,37	5,8
		14,16	11			8,11
						2
4CEQFH	Identifiler® Plus					
			22,24		17,18	12,13
4sp		8,10	12,13			8,12
		12,15	13,16	30,32.2		X,Y
		18,22				5,8
		14,16				8,11
4K9UJE	Identifiler® Plus					
			22,24		17,18	12,13
4sp		8,10	12,13			8,12
		12,15	13,16	30,32.2		X,Y
		18,22				5,8
		14,16				8,11
4TGNCL	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
4sp		8,10	12,13	13,17	21,24	8,12
		12,15	13,16	30,32.2	16,17	X,Y
		18,22			28.2,37	5,8
		14,16	11			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 4sp - STR Results

4WPHRK	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13,[15]	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16,[18]	11			2	
692882	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
6AM3GM	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
6BPLPJ	VeriFiler Plus					
	15.3,16	22,24	13,14	17,18	12,13	13,16
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16				2	
6CZJ32	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
6JCQEB	GlobalFiler™ (STRmix (SP Fraction only))					
	15.3,16	22,24	13,14	17,18	9,12,13	
4sp	8,10	12,13	13,17	19,21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
6L7MQB	PowerPlex® Fusion 5C					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				

TABLE 1

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

Item 4sp - STR Results

6N9HKL	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
6NCX2T	PowerPlex® Fusion 5C						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16,[17.2]	30,32.2	[14],16,17	X,Y	10,[11],12
		18,[20],22	9,12	13,17		5,8	8,11
		14,16,[18]	11				
6QWX2A	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
772P8J	GlobalFiler™ (STRmix)						
		15.3,16	19,22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,14,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,20,22			28.2,30.2,37	5,8	8,11
		14,16	11			2	
78HUPH	GlobalFiler™ (STRmix)						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
7BZ264	PowerPlex® Fusion 5C						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
		14,16	11				
7K3GTN	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	

TABLE 1

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

Item 4sp - STR Results

7NRR2U	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
7QVMKW	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
7V4RCW	PowerPlex® Fusion					
	15.3,16	18,19,22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,20,22	9,12	13,17		5,7,8	8,11
	14,16,18	11				
83EMF4	PowerPlex® Fusion					
		24				
4sp						11,12
	15	16			X,Y	
					5,8	
88WL9Q	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
8TVWML	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
8WV7HL	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				

TABLE 1

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

Item 4sp - STR Results

93WV4Y	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
963D6F	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
968K33	PowerPlex® Fusion					
	14,15.3,16	22,24	11,13,14	17,18	12,13	
4sp	8,10	12,13,15	13,17	21,24	8,12	11,12
	12,15	13,16,17.2	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17,20		5,8	8,11
	14,16	11				
98VXKL	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
9URQPN	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
9XMGVZ	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
A7DFQE	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	

TABLE 1

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

Item 4sp - STR Results

AACUFP	PowerPlex® Fusion					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
ABQ89R	PowerPlex® Fusion					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
ACHE7A	GlobalFiler™					
	[15],15,3,16	22,24	[11],13,14	17,18	[11],12,13	
4sp	8,[9],10	12,13	13,17	21,24	8,[11],12	11,12
	12,[14],15,[17]	[12],13,16	30,32.2	[15],16,17	X,Y	10,12
	18,22			28.2,37	5,[7],8	8,11
	14,16	11			2	
AG9UNP	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
AGFPKH	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
ANTV38	PowerPlex® Fusion					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
AP24XK	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	

TABLE 1

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

Item 4sp - STR Results

APBP4G	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	N/A
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	N/A	N/A	28.2,37	5,8	8,11
	14,16	11	N/A	N/A	2		
AT3AB6	PowerPlex® Fusion 5C						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
AYCEEQ	PowerPlex® Fusion						
		14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,12,13	
	4sp	8,10	12,13,15	13,17	19,21,24	8,12	11,12
		12,15,17	12,13,16,17.2	30,32.2	14,16,17	X,Y	10,11,12
		18,20,22	9,12	13,17,20		5,6,7,8	8,11
	14,16	11					
AYD32W	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
B3VN8P	PowerPlex® Fusion 6C						
		14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,11,12,13	
	4sp	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
		12,14,15,17	13,16,17.2	30,32.2	14,15,16,17	X,Y	10,11,12
		18,20,22	9,12,13	13,17,20	18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16,18	11	17	18			
BKFDKQ	GlobalFiler™ (STRmix)						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
BQHJZT	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					

TABLE 1

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

Item 4sp - STR Results

BTJET4	GlobalFiler™ (STRmix)						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
BVBNRC	GlobalFiler™						
		[14],15.3,16	22,24	13,14	[14],17,18	[9],12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16,[17.2]	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
BWHWPB	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
BY9YWJ	PowerPlex® Fusion 5C						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13,(15)	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
		14,16	11				
C2CXX6	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
C6EXX2	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
CBJUJM	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	

TABLE 1

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

Item 4sp - STR Results

CCULQH	PowerPlex® Fusion 5C					
	15.3,16	22,24	11,13,14	14,17,18	12,13	
4sp	8,10	12,13,15	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	14,16,17	X,Y	10,12
	18,20,22	9,12,13	13,17,20		5,8	8,11
	14,16	11				
CNH23W	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
CVPEBF	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
CW3TW4	GlobalFiler™ (STRmix)					
	15.3,16	18,19,22,24	13,14	14,17,18	12,13	
4sp	8,10	12,13,15	13,17	19,21,24	8,12	11,12
	12,15	12,13,16,17.2	30,32.2	14,16,17	X,Y	10,12
	18,20,22			18.2,28.2,37	5,6,8	8,11
	14,16	11			2	
CXG7P8	GlobalFiler™ (STRMIX)					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
DCMBUX	Identifiler® Plus					
	-	22,24	-	17,18	12,13	-
4sp	8,10	12,13	-	-	8,12	11,12
	12,15	13,16	30,32.2	-	X,Y	10,12
	18,22	-	-	-	5,8	8,11
	14,16	-	-	-	-	
DDHLYD	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	

TABLE 1

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

Item 4sp - STR Results

DDL2FK	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
DHVHMM	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
DKZVMA	GlobalFiler™ (STRmix)					
	15.3,16	18,22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
DN4WEJ	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
DW88D9	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
DWFTH6	GlobalFiler™ (STRmix)					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
DYZP2P	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	[19],21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				

TABLE 1

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

Item 4sp - STR Results

E3C6H8	GlobalFiler™ (STRMix)					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
EBD4NN	PowerPlex® Fusion					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
EC6CL7	ESI 17					
	15,3,16	22,24	13,14	17,18		
4sp		12,13	13,17	21,24		11,12
	12,15	13,16	30,32.2	16,17	X,Y	
	18,22			28.2,37	5,8	
	14,16					
EE6PXX	Identifiler® Plus					
	-	22,24	-	17,18	12,13	-
4sp	8,10	12,13	-	-	8,12	11,12
	12,15	13,16	30,32.2	-	X,Y	10,12
	18,22	-	-	-	5,8	8,11
	14,16	-	-	-	-	
EECHBD	GlobalFiler™ (STRMIX)					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
EF2ZX8	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
EQ67ZL	PowerPlex® Fusion 5C					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				

TABLE 1

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

Item 4sp - STR Results

EW8F8E	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
EZCQFB	GlobalFiler™					
	15.3,16	[18],22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
F43QN3	PowerPlex® Fusion 6C (GeneMapper ID-X 1.4)					
4sp						
FB2BU6	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
FBCU8C	GlobalFiler™ (STRmix)					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
FUEVQ9	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
FW6364	PowerPlex® 21 (STRmix v2.7.0)					
	15.3,16	22,24		17,18	12,13	13,16
4sp	8,10	12,13		21,24	8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16					

TABLE 1

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

Item 4sp - STR Results

FXW2DA	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
FYHDHB	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
G2FB79	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
G6YAHH	PowerPlex® Fusion 5C					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
GANYUE						
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
GH4NHE	GlobalFiler™					
	[14],15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13,[15]	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,[11],12
	18,[20],22			28.2,37	5,[7],8	8,11
	14,16,[18]	11			2	
GHKPKG	PowerPlex® Fusion 5C					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				

TABLE 1

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

Item 4sp - STR Results

GJVWF	GlobalFiler™ (STRmix)						
		15.3,16	18,22,24	11,13,14	14,17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16,17.2	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
GL6L62	PowerPlex® Fusion 5C						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
GVN6EY	PowerPlex® Fusion 5C						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
H7RLWG	PowerPlex® Fusion 6c						
		[14],[15],15.3,16	[18],[19],22,24	[11],13,14	[14],17,18	[9],[11],12,13	
	4sp	8,[9],10	12,13,[15]	13,[14],[16],17	[19],21,24	8,[11],12	11,12
		12,[14],15,[17]	13,16,[16.2],[17.2]	30,32.2	[14],16,17	X,Y	10,[11],12
		18,[20],22	9,12	13,17,[20]	[18.2],28.2,[30.2],37	5,[6],[7],8	8,11
	14,16,[18]	11	17	18			
HHHAU3	Identifiler® Plus						
			22,24		17,18	12,13	
	4sp	8,10	12,13			8,12	11,12
		12,15	13,16	30,32.2		X,Y	10,12
		18,22				5,8	8,11
	14,16						
HNKN9C	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
HNMEHF	PowerPlex® Fusion 6C						
		[14],15.3,16	22,24	[11],13,14	17,18	[9],[11],12,13	
	4sp	8,10	12,13	13,[14],17	[19],21,24	8,12	11,12
		12,[14],15	13,16	30,32.2	[14],16,17	X,Y	10,12
		18,[20],22	9,12,[13]	13,[16],17,[20]	[18.2],28.2,37	5,[7],8	8,11
	14,16,[18]	11	17	18			

TABLE 1

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

Item 4sp - STR Results

J996GC	PowerPlex® Fusion 5C					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
JA2BM4	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
JCPP4R	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
JUKJFP	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
JWVJ6	GlobalFiler™ (STRmix)					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
K2XRGQ	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
KGT6X8	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	

TABLE 1

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

Item 4sp - STR Results

KHWM74	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	[14],16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
KPMAQ9	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	NT
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	NT	NT	28.2,37	5,8	8,11
	14,16	11	NT	NT	2		
KR2MLW	GlobalFiler™ (STRmix)						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
KTW9EN	PowerPlex® Fusion 5C						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
	14,16	11					
KXND9R	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
L9H3C7	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
	14,16	11			2		
L9LLK4	PowerPlex® Fusion 5C						
		[15],15.3,16	[18,19],22,24	[11],13,14	[14],17,18	12,13	
	4sp	8,10	12,13,[15]	13,17	[19],21,24	8,12	11,12
		12,[14],15	[12],13,16,[17.2]	30,32.2	[14,15],16,17	X,Y	10,[11],12
		18,[20],22	9,12,[13]	13,17,[20]		5,[6,7],8	8,11
	14,16,[18]	11					

TABLE 1

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

Item 4sp - STR Results

LENMP4	GlobalFiler™					
		15.3,16	[19],22,24	13,14	17,18	12,13
	4sp	8,10	12,13,[15]	13,17	21,24	8,12 11,12
		12,15	13,16	30,32.2	16,17	X,Y 10,12
		18,22			[18.2],28.2,37	5,8 8,11
		14,16	11			2
LFGRVW	PowerPlex® Fusion 5C					
		15.3,16	22,24	13,14	17,18	12,13
	4sp	8,10	12,13	13,17	21,24	8,12 11,12
		12,15	13,16	30,32.2	16,17	X,Y 10,12
		18,22	9,12	13,17		5,8 8,11
		14,16	11			
LH8M2D	PowerPlex® Fusion					
		15,15.3,16	22,24	11,13,14	17,18	12,13
	4sp	8,10	12,13,15	13,17	21,24	8,12 11,12
		12,15	13,16,17.2	30,32.2	16,17	X,Y 10,11,12
		18,22	9,12	13,17,20		5,8 8,11
		14,16,18	11			
LRT3GZ	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	12,13
	4sp	8,10	12,13	13,17	21,24	8,12 11,12
		12,15	13,16	30,32.2	16,17	X,Y 10,12
		18,22			28.2,37	5,8 8,11
		14,16	11			2
MAQMRU	GlobalFiler™					
		15.3,16	22,24	13,14	17,18	9,11,12,13
	4sp	8,10	12,13	13,17	21,24	8,12 11,12
		12,15	13,16	30,32.2	16,17	X,Y 10,11,12
		18,22			28.2,37	5,8 8,11
		14,16	11			2
MCW7QF	PowerPlex® Fusion					
		15.3,16	22,24	13,14	17,18	12,13
	4sp	8,10	12,13	13,17	21,24	8,12 11,12
		12,15	13,16	30,32.2	16,17	X,Y 10,12
		18,22	9,12	13,17		5,8 8,11
		14,16	11			
MHKRVK	PowerPlex® Fusion 6C					
		15.3,16	22,24	13,14	17,18	12,13
	4sp	8,10	12,13	13,17	21,24	8,12 11,12
		12,15	13,16	30,32.2	16,17	X,Y 10,12
		18,22	9,12	13,17	28.2,37	5,8 8,11
		14,16	11	17	18	

TABLE 1

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

Item 4sp - STR Results

MPLY9B	PowerPlex® Fusion 5C					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
MRU39D	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
MTL9E7	PowerPlex® Fusion 5C					
	14,15,15.3,16	18,19,22,24	11,13,14	14,17,18	9,12,13	
4sp	8,9,10	12,13,15	13,14,17	19,21,24	8,11,12	11,12
	12,14,15,17	12,13,16,17.2	30,32.2	16,17	X,Y	10,11,12
	18,20,22	9,12	13,17		5,6,7,8	8,11
	14,16,18	11				
MXEGGR	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
N28ZVW	Identifiler® Plus					
		22,24		17,18	12,13	
4sp	8,10	12,13			8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22				5,8	8,11
	14,16					
N6C8VZ	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
N74MQ4	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	

TABLE 1

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

Item 4sp - STR Results

NBKQWE	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
NCWFCK	PowerPlex® Fusion 5C					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
NFQG88	PowerPlex® Fusion					
	14,15.3,16	19,22,24	11,13,14	14,17,18	12,13	
4sp	8,10	12,13	13,14,17	21,24	8,12	11,12
	12,15,17	13,16,17.2	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17,20		5,7,8	8,11
	14,16,18	11				
NKALUA	PowerPlex® Fusion 6C					
	[14],[15],15.3,16	[18],[19],22,24	[11],13,14	[14],17,18	[9],[11],12,13	
4sp	8,10	12,13,[15]	13,[14],17	[19],21,24	8,[11],12	11,12
	12,[14],15,[17]	[12],13,16,[17.2]	30,32.2	[14],[15],16,17	X,Y	10,[11],12
	18,[20],22	9,12,[13]	13,17,[20]	[18.2],28.2,[30.2],37	5,[6],[7],8	8,11
	14,16,[18]	11	17	18		
NN3KAZ	GlobalFiler™ (STRMIX)					
	15.3,16	18,22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
NPBWR2	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
NR949L	PowerPlex® Fusion 5c					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				

TABLE 1

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

Item 4sp - STR Results

NX9GX3

	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				

PCM6QX

GlobalFiler™ (STRmix)

	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	

PCTBC2

GlobalFiler™

	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	

PG4GUU

PowerPlex® 21 (STRmix v2.3)

	15,3,16	22,24		17	12,13	13,16
4sp	8,10	12,13		21,24	8,12	11,12
	12,15	13,16	30,32.2		X,Y	10,12
	18,22,23	9,12	13,17		5,8	8,11
	14,16					

PK2RY2

GlobalFiler™

	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	

PPVR7A

GlobalFiler™

	15,3,16	18,19,22,24	11,13,14	17,18	12,13	
4sp	8,9,10	12,13,15	13,14,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	14,16,17	X,Y	10,12
	18,20,22			18.2,28.2,30.2,37	5,6,7,8	8,11
	14,16	11			2	

PX2UVF

PowerPlex® Fusion 5C

	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				

TABLE 1

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

Item 4sp - STR Results

QEBPF3	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
QGUVPX	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
QG XKPN	PowerPlex® Fusion					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
QL697V	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
QLDUBR	GlobalFiler™ (STRmix)					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
QMMZFF	PowerPlex® Fusion					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
QNXQVC	PowerPlex® Fusion					
	[14],15,3,16	22,24	[11],13,14	17,18	12,13	
4sp	8,10	12,13,[15]	13,17	[19],21,24	8,12	11,12
	12,15	13,16	30,32.2	[14],16,17	X,Y	10,12
	18,22	9,12	13,17		5,[6],8	8,11
	14,16	11				

TABLE 1

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

Item 4sp - STR Results

QQ8QZJ	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
QXKVK4	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
R3YYYC	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
RKCM4W	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
RL8X8M	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
RP893M	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
RXJAV3	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	

TABLE 1

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

Item 4sp - STR Results

T46GW8	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
T63UHE	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
		14,16	11				
T9V8QW	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
		14,16	11				
T9YM84	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,6	8,11
		14,16	11				
TCYMQ9	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
TG4NDW	GlobalFiler™ (STRmix)						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13,15	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
TH6KV8	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
		14,16	11				

TABLE 1

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

Item 4sp - STR Results

TJDTQK	PowerPlex® Fusion						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
		14,16	11				
TXX6NN	GlobalFiler™ (STRmix)						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
TZXGZF	PowerPlex® Fusion 5C						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22	9,12	13,17		5,8	8,11
		14,16	11				
U79WGJ	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
UHXP2Y	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
UJERZK	GlobalFiler™						
		15.3,16	22,24	13,14	17,18	12,13	
	4sp	8,10	12,13	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,22			28.2,37	5,8	8,11
		14,16	11			2	
UJU9TT	GlobalFiler™						
		15.3,16	[19],22,24	13,14	17,18	12,13	
	4sp	8,10	12,13,[15]	13,17	21,24	8,12	11,12
		12,15	13,16	30,32.2	16,17	X,Y	10,12
		18,[20],22			28.2,37	5,8	8,11
		14,16,[18]	11			2	

TABLE 1

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

Item 4sp - STR Results

V4WJCM	GlobalFiler™ (STRmix)					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
VMMQAR	GlobalFiler™ (STRmix)					
	15,15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
VQPKC3	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
VQR3KY	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
VXRVR	GlobalFiler™ (STRmix)					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
VXLEBL	PowerPlex® Fusion 5C					
	15.3,16	22,24	13,14	14,17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17,20		5,8	8,11
	14,16	11				
VYJRW	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				

TABLE 1

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

Item 4sp - STR Results

YVM8DZ	PowerPlex® Fusion 5C					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
W64Z36	PowerPlex®					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
W6PRXB	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
W8D4Y3	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
WAJTX6	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
WGU2BY						
	15.3,16	19,22,24	13,14	14,17,18	12,13	
4sp	8,10	12,13	13,17	19,21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,20,22	9,12	13,17		5,8	8,11
	14,16	11				
WHY872	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	

TABLE 1

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

Item 4sp - STR Results

WNZH4U	GlobalFiler™					
	15.3,16	[18],22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,[20],22			28.2,37	5,8	8,11
	14,16	11			2	
WPN74Z	PowerPlex® Fusion 5C					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
WRBTU3	PowerPlex® ESX 17 Fast					
	15.3,16	22,24	13,14	17,18		
4sp		12,13	13,17	21,24		11,12
	12,15	13,16	30,32.2	16,17	X,Y	
	18,22			28.2,37	5,8	
	14,16					
WU2XJT	GlobalFiler™					
	15.3,16	[19],22,24	13,14	[14],17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
WXXWV3	PowerPlex® 5C					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
X3PAZE	Identifiler® Plus					
	-	22,24	-	17,18	12,13	-
4sp	8,10	12,13	-	-	8,12	11,12
	12,15	13,16	30,32.2	-	X,Y	10,12
	18,22	-	-	-	5,8	8,11
	14,16	-	-	-	-	
X9JYPY						
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13,15	13,17	19,21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				

TABLE 1

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

Item 4sp - STR Results

XAAZUM	GlobalFiler™ (No stats needed)					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
XCGJTH	PowerPlex® Fusion 5C					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
XRY4J4	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
XVRCEW	GlobalFiler™					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
XVU3PL	PowerPlex® Fusion 5C					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11	--	--	--	
XYBH2Y	PowerPlex® Fusion					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
Y3LXZP	GlobalFiler™ (STRmix)					
	15.3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	

TABLE 1

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

Item 4sp - STR Results

YCYZCH	PowerPlex® Fusion 5C					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
YEP2G7	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
YNQB3A	PowerPlex® Fusion 5C					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
YRPUVV	PowerPlex® Fusion					
	15,3,16	22,24	11,13,14	17,18	12,13	
4sp	8,10	12,13	13,17	19,21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
YVLPBN	GlobalFiler™ (STRmix)					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
Z3C2KC	PowerPlex® Fusion					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
ZCNJJ9	PowerPlex® Fusion					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				

TABLE 1

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

Item 4sp - STR Results

ZCPJGN	GlobalFiler™ (STRmix)					
	15,3,16	22,24	13,14	17,18	9,12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16,17.2	30,32.2	16,17	X,Y	10,12
	18,22			18.2,28.2,37	5,8	8,11
	14,16	11			2	
ZQDGRY	PowerPlex® Fusion					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
ZQFZZV	PowerPlex® Fusion					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,[11],12
	18,22	9,12	13,17		5,8	8,11
	14,16	11				
ZTJQ9W	GlobalFiler™					
	15,3,16	22,24	13,14	17,18	12,13	
4sp	8,10	12,13	13,17	21,24	8,12	11,12
	12,15	13,16	30,32.2	16,17	X,Y	10,12
	18,22			28.2,37	5,8	8,11
	14,16	11			2	
ZUBVEN	GlobalFiler™ (STRmix)					
	14,15,3,16	18,19,22,24	11,13,14	17,18	9,12,13	
4sp	8,10	12,13,15	13,17	19,21,24	8,12	11,12
	12,15	13,16	30,32.2	14,16,17	X,Y	10,11,12
	18,20,22			18.2,28.2,30.2,37	5,6,8	8,11
	14,16,18	11			2	

YSTR Amplification Kit(s) & Results

TABLE 2

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

Item 1 - YSTR Results

4CEQFH	Yfiler™									
		NA	NA	NA	NA	NA	NA	NA	NA	NA
1		NA	NA	NA	NA	NA	NA	NA	NA	NA
98VXKL	PowerPlex® Y 23									
1										
DCMBUX										
1		-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-
W8D4Y3	Yfiler™ Plus									
1										

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 2 - YSTR Results										
2HYXZC	PowerPlex® Y 23									
		14	11,11	13	29	24	11	13	14	
2	15	12	12	19		15	17		22	
		13	13	16	18		23	10	11	
2VJEUJ	Yfiler™									
	-	14	11	13	29	24	11	13	14	
2	15	12	12	19	-	15	17	-	-	
	-	-	-	-	-	-	23	-	11	
373EWQ	Yfiler™ Plus									
	35,37	14	11,11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
3AVCCG	PowerPlex® Y 23									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17		22	
		13	13	16	18		23	10	11	
3GVR2P	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
3LNT2H	Yfiler™									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17			
							23		11	
3LV6VU	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
3MYVP3	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
3NW4XL	Yfiler™									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17			
							23		11	
3X4NGH	Yfiler™									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17			
							23		11	
3X7JUL	Yfiler™ Plus									
	35,37	14	11,11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
3ZCU3J	PowerPlex® Y 23									
		14	11,11	13	29	24	11	13	14	
2	15	12	12	19		15	17		22	
		13	13	16	18		23	10	11	

TABLE 2

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

Item 2 - YSTR Results

44QUP3	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
4CEQFH	Yfiler™								
		14	11	13	29	24	11	13	14
2	15	12	12	19		15	17		11
							23		11
4WPHRK	Yfiler™								
		14	11,11	13	29	24	11	13	14
2	15	12	12	19		15	17		11
							23		11
6AM3GM	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
6BPLPJ	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
6CZJ32	Yfiler™								
		14	11	13	29	24	11	13	14
2	15	12	12	19		15	17		11
							23		11
6JCQEB	Yfiler™ Plus								
	35,37	14	11,11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
6N9HKL	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
6QWX2A	PowerPlex® Y 23								
		14	11,11	13	29	24	11	13	14
2	15	12	12	19		15	17		22
		13	13	16	18		23	10	11
772P8J	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
78HUPH	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
7K3GTN	Yfiler™								
		14	11	13	29	24	11	13	14
2	15	12	12	19		15	17		11
							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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 2 - YSTR Results										
7NRR2U	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
7V4RCW	PowerPlex® Y 23									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17		22	
		13	13	16	18		23	10	11	
88WL9Q	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
8WV7HL	PowerPlex® Y 23									
		14	11,11	13	29	24	11	13	14	
2	15	12	12	19		15	17		22	
		13	13	16	18		23	10	11	
8XMBNE	PowerPlex® Y 23									
		14	11,11	13	29	24	11	13	14	
2	15	12	12	19		15	17		22	
		13	13	16	18		23	10	11	
963D6F	Yfiler™									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17			
							23		11	
98VXKL	PowerPlex® Y 23									
		14	11,11	13	29	24	11	13	14	
2	15	12	12	19		15	17		22	
		13	13	16	18		23	10	11	
9URQPN	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
A7DFQE	Yfiler™									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17			
							23		11	
AACUFP	PowerPlex® Y 23									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17		22	
		13	13	16	18		23	10	11	
ABQ89R	PowerPlex® Y 23									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17		22	
		13	13	16	18		23	10	11	
ACHE7A	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 2 - YSTR Results

AGFPKH	Yfiler™ Plus								
	35,37	14	11,11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
AP24XK	Yfiler™								
		14	11	13	29	24	11	13	14
2	15	12	12	19		15	17		11
							23		11
APBP4G	Yfiler™								
		14	11,11	13	29	24	11	13	14
2	15	12	12	19		15	17		11
							23		11
AT3AB6	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
AYD32W	Yfiler™ Plus								
	16	11	17	13	29	23	11	15	14
2	12	13	19	40	15	18	23	11	28
	14	12	22	35,37	13		11		24
BTJET4	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
BVBNRC	Yfiler™								
		14	11,11	13	29	24	11	13	14
2	15	12	12	19		15	17		11
							23		11
BWHWPB	Yfiler™								
		14	11	13	29	24	11	13	14
2	15	12	12	19		15	17		11
							23		11
C2CXX6	PowerPlex® Y 23								
		14	11	13	29	24	11	13	14
2	15	12	12	19		15	17		22
		13	13	16	18		23	10	11
C6EXX2	Yfiler™ Plus								
	35,37	14	11,11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
CBJUJM	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
CVPEBF	Yfiler™ Plus								
	35,37	14	11,11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	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 2 - YSTR Results

CW3TW4	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
CXG7P8	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
DCMBUX	Yfiler™								
	-	14	11	13	29	24	11	13	14
2	15	12	12	19	-	15	17	-	-
	-	-	-	-	-	-	23	-	11
DDHLYD	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
DKZVMA	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
DN4WEJ	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
DW88D9	Yfiler™								
		14	11	13	29	24	11	13	14
2	15	12	12	19		15	17		
							23		11
DWFTH6	Yfiler™ Plus								
	35,37	14	11,11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
DYZP2P	PowerPlex® Y 23								
		14	11,11	13	29	24	11	13	14
2	15	12	12	19		15	17		22
		13	13	16	18		23	10	11
E3C6H8	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
EBD4NN	PowerPlex® Y 23								
		14	11	13	29	24	11	13	14
2	15	12	12	19		15	17		22
		13	13	16	18		23	10	11
EE6PXX	Yfiler™								
	-	14	11	13	29	24	11	13	14
2	15	12	12	19	-	15	17	-	-
	-	-	-	-	-	-	23	-	11

TABLE 2

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

Item 2 - YSTR Results

EF2ZX8	Yfiler™								
		14	11	13	29	24	11	13	14
2		15	12	12	19	15	17		
							23		11
EW8F8E	PowerPlex® Y 23								
		14	11	13	29	24	11	13	14
2		15	12	12	19	15	17		22
		13	13	16	18		23	10	11
EZCQFB	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2		15	12	12	19	28	17	11	22
	40	13		16	18	23	23		11
F43QN3	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2		15	12	12	19	28	17	11	22
	40	13		16	18	23	23		11
FB2BU6	Yfiler™								
		14	11	13	29	24	11	13	14
2		15	12	12	19	15	17		
							23		11
FUEVQ9	Yfiler™								
		14	11	13	29	24	11	13	14
2		15	12	12	19	15	17		
							23		11
FXW2DA	Yfiler™ Plus								
	35,37	14	11,11	13	29	24	11	13	14
2		15	12	12	19	28	17	11	22
	40	13		16	18	23	23		11
FYHDHB	Yfiler™								
		14	11,11	13	29	24	11	13	14
2		15	12	12	19	15	17		
							23		11
G2FB79	Yfiler™								
		14	11,11	13	29	24	11	13	14
2		15	12	12	19	15	17		
							23		11
G6YAHH	PowerPlex® Y 23								
		14	11	13	29	24	11	13	14
2		15	12	12	19	15	17		22
		13	13	16	18		23	10	11
GH4NHE	Yfiler™								
		14	11,11	13	29	24	11	13	14
2		15	12	12	19	15	17		
							23		11
GJVWFV	Yfiler™ Plus								
	35,37	14	11,11	13	29	24	11	13	14
2		15	12	12	19	28	17	11	22
	40	13		16	18	23	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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 2 - YSTR Results										
GL6L62	PowerPlex® Y 23									
		14	11,11	13	29	24	11	13	14	
2	15	12	12	19		15	17		22	
		13	13	16	18		23	10	11	
GVN6EY	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
JWVJ6	Yfiler™ Plus									
	35,37	14	11,11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
K2XRQ	PowerPlex® Y 23									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17		22	
		13	13	16	18		23	10	11	
KGT6X8	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
KPMAQ9	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13	NT	16	18	23	23	NT	11	
KXND9R	Yfiler™									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17			
							23		11	
L9H3C7	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
LENMP4	Yfiler™									
		14	11,11	13	29	24	11	13	14	
2	15	12	12	19		15	17			
							23		11	
LFE3K8	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
LRT3GZ	Yfiler™									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17			
							23		11	
MTL9E7	Yfiler™									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17			
							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 2 - YSTR Results

MXEGGR	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	2	15	12	12	19	28	15	17	22
	40	13		16	18	23	23		11
N28ZVV	Yfiler™								
		14	11	13	29	24	11	13	14
	2	15	12	12	19	15	17		11
							23		11
N6C8VZ	Yfiler™								
		14	11,11	13	29	24	11	13	14
	2	15	12	12	19	15	17		11
							23		11
N74MQ4	Yfiler™								
		14	11	13	29	24	11	13	14
	2	15	12	12	19	15	17		11
							23		11
NN3KAZ	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	2	15	12	12	19	28	15	17	22
	40	13		16	18	23	23		11
NPBWR2	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	2	15	12	12	19	28	15	17	22
	40	13		16	18	23	23		11
NR949L	Yfiler™								
		14	11	13	29	24	11	13	14
	2	15	12	12	19	15	17		11
							23		11
PCM6QX	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	2	15	12	12	19	28	15	17	22
	40	13		16	18	23	23		11
PCTBC2	Yfiler™ Plus								
	35,37	14	11,11	13	29	24	11	13	14
	2	15	12	12	19	28	15	17	22
	40	13		16	18	23	23		11
PK2RY2	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	2	15	12	12	19	28	15	17	22
	40	13		16	18	23	23		11
PPVR7A	Yfiler™								
		14	11	13	29	24	11	13	14
	2	15	12	12	19	15	17		11
							23		11
PX2UVF	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	2	15	12	12	19	28	15	17	22
	40	13		16	18	23	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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 2 - YSTR Results										
QEBPF3	Yfiler™ Plus									
	35,37	14	11,11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
QGUVPX	Yfiler™									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17			
							23		11	
QGXKPN	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
QL697V	Yfiler™									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17			
							23		11	
QLDUBR	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
QMMZFF	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
QNXQVC	PowerPlex® Y 23									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17		22	
		13	13	16	18		23	10	11	
QXKVK4	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
RKCM4W	Yfiler™ Plus									
	35,37	14	11,11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
RXJAV3	Yfiler™ Plus									
	35,37	14	11,11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
T46GW8	Yfiler™									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17			
							23		11	
TCYMQ9	Yfiler™									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17			
							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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 2 - YSTR Results

TG4NDW	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
2	40	13		16	18	23	23		11
TJDTQK	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
2	40	13		16	18	23	23		11
TXWEDY	Yfiler™								
	35,37	14	11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
2	40	13		16	18	23	23		11
TXX6NN	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
2	40	13		16	18	23	23		11
U79WGJ	Yfiler™								
		14	11	13	29	24	11	13	14
	2	15	12	12	19		15	17	
							23		11
UHXP2Y	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
2	40	13		16	18	23	23		11
UJAL2X	PowerPlex® Y 23								
		14	11,11	13	29	24	11	13	14
	2	15	12	12	19		15	17	22
		13	13	16	18		23	10	11
UJERZK	PowerPlex® Y 23								
		14	11,11	13	29	24	11	13	14
	2	15	12	12	19		15	17	22
		13	13	16	18		23	10	11
UJU9TT	Yfiler™								
		14	11,11	13	29	24	11	13	14
	2	15	12	12	19		15	17	
							23		11
V4WJCM	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	2	15	12	12	19	28	15	17	11
	40	13		16	18	23	23		11
V66PJV	Yfiler™ Plus PCR Amplification Kit								
	35,37	14	11,11	13	29	24	11	13	14
	2	15	12	12	19	28	15	17	11
	40	13		16	18	23	23		11
VMMQAR	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	2	15	12	12	19	28	15	17	11
	40	13		16	18	23	23		11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 2 - YSTR Results										
WXRVR	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
VXLEBL	PowerPlex® Y 23									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17		22	
		13	13	16	18		23	10	11	
VYJRW	PowerPlex® Y 23									
		14	11,11	13	29	24	11	13	14	
2	15	12	12	19		15	17		22	
		13	13	16	18		23	10	11	
W8D4Y3	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
WHY872	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
WNZH4U	Yfiler™									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17		22	
							23		11	
WRBTU3	Yfiler™ Plus									
	35,37	14	11,11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
WU2XJT	Yfiler™									
		14	11,11	13	29	24	11	13	14	
2	15	12	12	19		15	17		22	
							23		11	
X3PAZE	Yfiler™									
	-	14	11	13	29	24	11	13	14	
2	15	12	12	19	-	15	17	-	-	
	-	-	-	-	-	-	23	-	11	
XAAZUM	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
2	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
XRY4J4	PowerPlex® Y 23									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	17		22	
		13	13	16	18		23	10	11	
XVRCEW	Yfiler™									
		14	11	13	29	24	11	13	14	
2	15	12	12	19		15	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 2 - YSTR Results

XVU3PL	PowerPlex® Y 23								
		14	11,11	13	29	24	11	13	14
2	15	12	12	19		15	17		22
		13	13	16	18		23	10	11
Y3LXZP	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
YVLPBN	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
ZCPJGN	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
ZUBVEN	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
2	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 3 - YSTR Results										
2VJEU	Yfiler™									
	-	14	11	13	29	24	11	13	14	
3	15	12	12	19	-	15	17	-	-	
	-	-	-	-	-	-	23	-	11	
373EWQ	Yfiler™ Plus									
	35,37	14	11,11	13	29	24	11	13	14	
3	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
3AVCCG	PowerPlex® Y 23									
		14	11	13	29	24	11	13	14	
3	15	12	12	19		15	17		22	
		13	13	16	18		23	10	11	
3GVR2P	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
3	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
3LNT2H	Yfiler™									
		14	11	13	29	24	11	13	14	
3	15	12	12	19		15	17			
							23		11	
3LV6VU	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
3	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
3MYVP3	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
3	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
3NW4XL	Yfiler™									
		14	11	13	29	24	11	13	14	
3	15	12	12	19		15	17			
							23		11	
3X4NGH	Yfiler™									
		14	11	13	29	24	11	13	14	
3	15	12	12	19		15	17			
							23		11	
3X7JUL	Yfiler™ Plus									
	35,37	14	11,11	13	29	24	11	13	14	
3	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	
3ZCU3J	PowerPlex® Y 23									
		14	11,11	13	29	24	11	13	14	
3	15	12	12	19		15	17		22	
		13	13	16	18		23	10	11	
44QUP3	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
3	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23		11	

TABLE 2

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

Item 3 - YSTR Results

4CEQFH	Yfiler™								
		14	11	13	29	24	11	13	14
	3	15	12	12	19	15	17		11
							23		
4WPHRK	Yfiler™								
		14	11,11	13	29	24	11	13	14
	3	15	12	12	19	15	17		11
							23		
6AM3GM	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	3	15	12	12	19	28	15	17	22
	40	13		16	18	23	23		11
6BPLPJ	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	3	15	12	12	19	28	15	17	22
	40	13		16	18	23	23		11
6CZJ32	Yfiler™								
		14	11	13	29	24	11	13	14
	3	15	12	12	19	15	17		11
							23		
6JCQEB	Yfiler™ Plus								
	35,37	14	11,11	13	29	24	11	13	14
	3	15	12	12	19	28	15	17	22
	40	13		16	18	23	23		11
6N9HKL	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	3	15	12	12	19	28	15	17	22
	40	13		16	18	23	23		11
772P8J	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	3	15	12	12	19	28	15	17	22
	40	13		16	18	23	23		11
78HUPH	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	3	15	12	12	19	28	15	17	22
	40	13		16	18	23	23		11
7K3GTN	Yfiler™								
		14	11	13	29	24	11	13	14
	3	15	12	12	19	15	17		11
							23		
7NRR2U	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	3	15	12	12	19	28	15	17	22
	40	13		16	18	23	23		11
7V4RCW	PowerPlex® Y 23								
		14	11	13	29	24	11	13	14
	3	15	12	12	19	15	17		22
		13	13	16	18		23	10	11

TABLE 2

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

Item 3 - YSTR Results

88WL9Q	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
8XMBNE	PowerPlex® Y 23								
		14	11,11	13	29	24	11	13	14
3	15	12	12	19		15	17		22
		13	13	16	18		23	10	11
963D6F	Yfiler™								
		14	11	13	29	24	11	13	14
3	15	12	12	19		15	17		
							23		11
98VXKL	PowerPlex® Y 23								
		14	11,11	13	29	24	11	13	14
3	15	12	12	19		15	17		22
		13	13	16	18		23	10	11
9URQPN	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
A7DFQE	Yfiler™								
		14	11	13	29	24	11	13	14
3	15	12	12	19		15	17		
							23		11
AGFPKH	Yfiler™ Plus								
	35,37	14	11,11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
AP24XK	Yfiler™								
		14	11	13	29	24	11	13	14
3	15	12	12	19		15	17		
							23		11
APBP4G	Yfiler™								
		14	11,11	13	29	24	11	13	14
3	15	12	12	19		15	17		
							23		11
AT3AB6	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
AYD32W	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
BTJET4	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 3 - YSTR Results										
BVBNRC	Yfiler™									
		14	11,11	13	29	24	11	13	14	
3	15	12	12	19		15	17			
							23			11
BWHWPB	Yfiler™									
		14	11	13	29	24	11	13	14	
3	15	12	12	19		15	17			
							23			11
C6EXX2	Yfiler™ Plus									
	35,37	14	11,11	13	29	24	11	13	14	
3	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23			11
CBJUJM	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
3	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23			11
CVPEBF	Yfiler™ Plus									
	35,37	14	11,11	13	29	24	11	13	14	
3	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23			11
CW3TW4	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
3	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23			11
CXG7P8	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
3	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23			11
DCMBUX	Yfiler™									
	-	14	11	13	29	24	11	13	14	
3	15	12	12	19	-	15	17	-	-	
	-	-	-	-	-	-	23	-	-	11
DDHLYD	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
3	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23			11
DKZVMA	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
3	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23			11
DN4WEJ	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
3	15	12	12	19	28	15	17	11	22	
	40	13		16	18	23	23			11
DW88D9	Yfiler™									
		14	11	13	29	24	11	13	14	
3	15	12	12	19		15	17			
							23			11

TABLE 2

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

Item 3 - YSTR Results

DWFTH6	Yfiler™ Plus								
	35,37	14	11,11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
DYZP2P	PowerPlex® Y 23								
		14	11,11	13	29	24	11	13	14
3	15	12	12	19		15	17		22
		13	13	16	18		23	10	11
E3C6H8	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
EBD4NN	PowerPlex® Y 23								
		14	11	13	29	24	11	13	14
3	15	12	12	19		15	17		22
		13	13	16	18		23	10	11
EE6PXX	Yfiler™								
	-	14	11	13	29	24	11	13	14
3	15	12	12	19	-	15	17	-	-
	-	-	-	-	-	-	23	-	11
EF2ZX8	Yfiler™								
		14	11	13	29	24	11	13	14
3	15	12	12	19		15	17		
							23		11
EW8F8E	PowerPlex® Y 23								
		14	11	13	29	24	11	13	14
3	15	12	12	19		15	17		22
		13	13	16	18		23	10	11
EZCQFB	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
F43QN3	Yfiler™								
	35,37	14	11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
FB2BU6	Yfiler™								
		14	11	13	29	24	11	13	14
3	15	12	12	19		15	17		
							23		11
FUEVQ9	Yfiler™								
		14	11	13	29	24	11	13	14
3	15	12	12	19		15	17		
							23		11
FXW2DA	Yfiler™ Plus								
	35,37	14	11,11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 3 - YSTR Results										
FYHDHB	Yfiler™									
		14	11,11	13	29	24	11	13	14	
3	15	12	12	19		15	17			
							23			11
G2FB79	Yfiler™									
		14	11,11	13	29	24	11	13	14	
3	15	12	12	19		15	17			
							23			11
G6YAHH	PowerPlex® Y 23									
		14	11	13	29	24	11	13	14	
3	15	12	12	19		15	17			22
		13	13	16	18		23	10		11
GH4NHE	Yfiler™									
		14	11,11	13	29	24	11	13	14	
3	15	12	12	19		15	17			
							23			11
GJVWFV	Yfiler™ Plus									
	35,37	14	11,11	13	29	24	11	13	14	
3	15	12	12	19	28	15	17	11		22
	40	13		16	18	23	23			11
GL6L62	PowerPlex® Y 23									
		14	11,11	13	29	24	11	13	14	
3	15	12	12	19		15	17			22
		13	13	16	18		23	10		11
GVN6EY	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
3	15	12	12	19	28	15	17	11		22
	40	13		16	18	23	23			11
JWFVJ6	Yfiler™ Plus									
	35,37	14	11,11	13	29	24	11	13	14	
3	15	12	12	19	28	15	17	11		22
	40	13		16	18	23	23			11
K2XRGQ	PowerPlex® Y 23									
		14	11	13	29	24	11	13	14	
3	15	12	12	19		15	17			22
		13	13	16	18		23	10		11
KGT6X8	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
3	15	12	12	19	28	15	17	11		22
	40	13		16	18	23	23			11
KPMAQ9	Yfiler™ Plus									
	35,37	14	11	13	29	24	11	13	14	
3	15	12	12	19	28	15	17	11		22
	40	13	NT	16	18	23	23	NT		11
KXND9R	Yfiler™									
		14	11	13	29	24	11	13	14	
3	15	12	12	19		15	17			
							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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 3 - YSTR Results

L9H3C7	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
LENMP4	Yfiler™								
		14	11,11	13	29	24	11	13	14
	15	12	12	19		15	17		
							23		11
LFE3K8	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
LRT3GZ	Yfiler™								
		14	11	13	29	24	11	13	14
	15	12	12	19		15	17		
							23		11
MTL9E7	Yfiler™								
		14	11	13	29	24	11	13	14
	15	12	12	19		15	17		
							23		11
MXEGGR	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
N28ZVV	Yfiler™								
		14	11	13	29	24	11	13	14
	15	12	12	19		15	17		
							23		11
N6C8VZ	Yfiler™								
		14	11,11	13	29	24	11	13	14
	15	12	12	19		15	17		
							23		11
N74MQ4	Yfiler™								
		14	11	13	29	24	11	13	14
	15	12	12	19		15	17		
							23		11
NN3KAZ	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
NR949L	Yfiler™								
		14	11	13	29	24	11	13	14
	15	12	12	19		15	17		
							23		11
PCM6QX	Yfiler™ Plus								
	35,37	14	11,11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 3 - YSTR Results

PCTBC2	Yfiler™ Plus								
	35,37	14	11,11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
PK2RY2	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
PPVR7A	Yfiler™								
		14	11	13	29	24	11	13	14
3	15	12	12	19		15	17		
							23		11
PX2UVF	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
QEBPF3	Yfiler™ Plus								
	35,37	14	11,11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
QGUVPX	Yfiler™								
		14	11	13	29	24	11	13	14
3	15	12	12	19		15	17		
							23		11
QG XKPN	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
QL697V	Yfiler™								
		14	11	13	29	24	11	13	14
3	15	12	12	19		15	17		
							23		11
QLDUBR	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
QMMZFF	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
QNXQVC	PowerPlex® Y 23								
		14	11	13	29	24	11	13	14
3	15	12	12	19		15	17		22
		13	13	16	18		23	10	11
QXKVK4	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 3 - YSTR Results

RKCM4W	Yfiler™ Plus								
	35,37	14	11,11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
RXJAV3	Yfiler™ Plus								
	35,37	14	11,11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
T46GW8	Yfiler™								
		14	11	13	29	24	11	13	14
	15	12	12	19		15	17		
						23			11
TCYMQ9	Yfiler™								
		14	11	13	29	24	11	13	14
	15	12	12	19		15	17		
						23			11
TJDTQK	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
TXWEDY	Yfiler™								
	35,37	14	11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
TXX6NN	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
U79WGJ	Yfiler™								
		14	11	13	29	24	11	13	14
	15	12	12	19		15	17		
						23			11
UHXP2Y	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
UJAL2X	PowerPlex® Y 23								
		14	11,11	13	29	24	11	13	14
	15	12	12	19		15	17		22
		13	13	16	18		23	10	11
UJERZK	PowerPlex® Y 23								
		14	11,11	13	29	24	11	13	14
	15	12	12	19		15	17		22
		13	13	16	18		23	10	11
UJU9TT	Yfiler™								
		14	11,11	13	29	24	11	13	14
	15	12	12	19		15	17		
						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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 3 - YSTR Results

V4WJCM	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
V66PJV	Yfiler™ Plus PCR Amplification Kit								
	35,37	14	11,11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
VMMQAR	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
VVXRVR	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
VXLEBL	PowerPlex® Y 23								
		14	11	13	29	24	11	13	14
3	15	12	12	19		15	17		22
		13	13	16	18		23	10	11
VYJRWT	PowerPlex® Y 23								
		14	11,11	13	29	24	11	13	14
3	15	12	12	19		15	17		22
		13	13	16	18		23	10	11
W8D4Y3	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
WHY872	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
WNZH4U	Yfiler™								
		14	11	13	29	24	11	13	14
3	15	12	12	19		15	17		
							23		11
WRBTU3	Yfiler™ Plus								
	35,37	14	11,11	13	29	24	11	13	14
3	15	12	12	19	28	15	17	11	22
	40	13		16	18	23	23		11
WU2XJT	Yfiler™								
		14	11,11	13	29	24	11	13	14
3	15	12	12	19		15	17		
							23		11
X3PAZE	Yfiler™								
	-	14	11	13	29	24	11	13	14
3	15	12	12	19	-	15	17	-	-
	-	-	-	-	-	-	23	-	11

TABLE 2

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

Item 3 - YSTR Results

XAAZUM	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
3	40	13		16	18	23	23		11
XRY4J4	PowerPlex® Y 23								
		14	11	13	29	24	11	13	14
	15	12	12	19	28	15	17		22
3		13	13	16	18		23	10	11
XVRCEW	Yfiler™								
		14	11	13	29	24	11	13	14
	15	12	12	19		15	17		
3							23		11
XVU3PL	PowerPlex® Y 23								
		14	11,11	13	29	24	11	13	14
	15	12	12	19		15	17		22
3		13	13	16	18		23	10	11
Y3LXZP	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
3	40	13		16	18	23	23		11
YVLPBN	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
3	40	13		16	18	23	23		11
ZCPJGN	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
3	40	13		16	18	23	23		11
ZUBVEN	Yfiler™ Plus								
	35,37	14	11	13	29	24	11	13	14
	15	12	12	19	28	15	17	11	22
3	40	13		16	18	23	23		11

TABLE 2

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

Item 4 - YSTR Results

3AVCCG	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
4		15	12	13	18	16	17		22
		12	13	17	18		25	10	11
3GVR2P	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4		15	12	13	18	29	16	17	22
	37	12		17	18	22	25		11
8XMBNE	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
4		15	12	13	18	16	17		22
		12	13	17	18		25	10	11
LFE3K8	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4		15	12	13	18	29	16	17	22
	37	12		17	18	22	25		11
TXWEDY	Yfiler™								
	35,37	15	11,14	12	28	23	11	13	13
4		15	12	13	18	29	16	17	22
	37	12		17	18	22	25		11
UJAL2X	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
4		15	12	13	18	16	17		22
		12	13	17	18		25	10	11
V66PJV	Yfiler™ Plus PCR Amplification Kit								
	35,37	15	11,14	12	28	23	11	13	13
4		15	12	13	18	29	16	17	22
	37	12		17	18	22	25		11

TABLE 2

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

Item 4e - YSTR Results

2HYXZC	PowerPlex® Y 23								
4e									
2VJEUJ	Yfiler™								
	-	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	-	16	17	-	-
	-	-	-	-	-	-	25	-	11
373EWQ	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37,[38]	12		17	18	[21],22	25		11
3LNT2H	Yfiler™								
		15	11,14	12	28	23	11	13	13
4e	15	12	13	18		16	17		
							25		11
3LV6VU	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
3MYVP3	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
3NW4XL	Yfiler™								
		15	11,14	12	28	23	11	13	13
4e	15	12	13	18		16	17		
							25		11
3X4NGH	Yfiler™								
		15	11,14	12	28	23	11	13	13
4e	15	12	13	18		16	17		
							25		11
3X7JUL	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
3ZCU3J	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
4e	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
44QUP3	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
4CEQFH	Yfiler™								
		15	11,14	12	28	NA	11	13	13
4e	15	12	13	18		16	17		
							25		11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 4e - YSTR Results										
4WPHRK	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4e	15	12	13	18		16	17			
							25			11
6AM3GM	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
6BPLPJ	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37,(38)	12		17	18	22	25			11
6CZJ32	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4e	15	12	13	18		16	17			
							25			11
6JCQEB	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
6N9HKL	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
6QWX2A	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
4e	15	12	13	18		16	17			22
		12	13	17	18		25	10		11
772P8J	Yfiler™ Plus									
	35,37	15	11,14	12		23	11	13	13	
4e		12	13	18	29	16	17	11	22	
		12		17	18	22	25			11
78HUPH	Yfiler™ Plus									
4e										
7K3GTN	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4e	15	12	13	18		16	17			
							25			11
7NRR2U	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
7V4RCW	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
4e	15	12	13	18		16	17			22
		12	13	17	18		25	10		11

TABLE 2

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

Item 4e - YSTR Results

88WL9Q	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
8WV7HL	PowerPlex® Y 23								
4e									
963D6F	Yfiler™								
		15	11,14	12	28	23	11	13	13
4e	15	12	13	18		16	17		
							25		11
98VXKL	PowerPlex® Y 23								
4e									
9URQPN	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
A7DFQE	Yfiler™								
		15	11,14	12	28	23	11	13	13
4e	15	12	13	18		16	17		
							25		11
AACUFP	PowerPlex® Y 23								
4e									
ABQ89R	PowerPlex® Y 23								
4e									
ACHE7A	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
AGFPKH	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
AP24XK	Yfiler™								
		15	11,14	12	28	23	11	13	13
4e	15	12	13	18		16	17		
							25		11
APBP4G	Yfiler™								
	N/A	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	N/A	16	17	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	25	N/A	11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 4e - YSTR Results										
AT3AB6	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
AYD32W	Yfiler™ Plus									
	35		11,14	12	28		11	13	13	
4e	15	12				16	17		22	
	37			17	18	22	25		11	
BTJET4	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
BVBNRC	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4e	15	12	13	18		16	17			
							25		11	
BWHWPB	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4e	15	12	13	18		16	17			
							25		11	
C2CXX6	PowerPlex® Y 23									
4e										
C6EXX2	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
CBJUJM	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
CVPEBF	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
CW3TW4	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
CXG7P8	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
DCMBUX	Yfiler™									
	-	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	-	16	17	-	-	
	-	-	-	-	-	-	25	-	11	

TABLE 2

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

Item 4e - YSTR Results

DDHLYD	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
DKZVMA	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
DN4WEJ	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
DW88D9	Yfiler™								
		15	11,14	12	28	23	11	13	13
4e	15	12	13	18		16	17		
							25		11
DWFTH6	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22,23	25		11
DYZP2P	PowerPlex® Y 23								
4e									
E3C6H8	Yfiler™ Plus								
4e									
EE6PXX	Yfiler™								
	-	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	-	16	17	-	-
	-	-	-	-	-	-	25	-	11
EF2ZX8	Yfiler™								
		15	11,14	12	28	23	11	13	13
4e	15	12	13	18		16	17		
							25		11
EW8F8E	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
4e	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
EZCQFB	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
F43QN3	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 4e - YSTR Results										
FB2BU6	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4e	15	12	13	18		16	17			
							25			11
FUEVQ9	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4e	15	12	13	18		16	17			
							25			11
FXW2DA	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
FYHDHB	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4e	15	12	13	18		16	17			
							25			11
G2FB79	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4e	15	12	13	18		16	17			
							25			11
G6YAHH	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
4e	15	12	13	18		16	17		22	
		12	13	17	18		25	10		11
GH4NHE	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4e	15	12	13	18		16	17			
							25			11
GJVWFV	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
GL6L62	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
4e	15	12	13	18		16	17		22	
		12	13	17	18		25	10		11
GVN6EY	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
JWVJ6	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
K2XRGQ	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
4e		12	13	18		16	17		22	
		12	13	17	18		25	10		11

TABLE 2

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

Item 4e - YSTR Results

KGT6X8	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	4e	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
KPMAQ9	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	4e	15	12	13	18	29	16	17	11
	37	12	NT	17	18	22	25	NT	11
KXND9R	Yfiler™								
		15	11,14	12	28	23	11	13	13
	4e	15	12	13	18		16	17	
							25		11
L9H3C7	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	4e	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
LENMP4	Yfiler™								
		15	11,14	12	28	23	11	13	13
	4e	15	12	13	18		16	17	
							25		11
LRT3GZ	Yfiler™								
		15	11,14	12	28	23	11	13	13
	4e	15	12	13	18		16	17	
							25		11
MTL9E7	Yfiler™								
	4e								
MXEGGR	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	4e	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
N28ZVV	Yfiler™								
		15	11,14	12	28	23	11	13	13
	4e	15	12	13	18		16	17	
							25		11
N6C8VZ	Yfiler™								
		15	11,14	12	28	23	11	13	13
	4e	15	12	13	18		16	17	
							25		11
N74MQ4	Yfiler™								
		15	11,14	12	28	23	11	13	13
	4e	15	12	13	18		16	17	
							25		11
NN3KAZ	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	4e	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481

Item 4e - YSTR Results

Item	Yfiler™ Plus	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
NPBWR2	Yfiler™ Plus								
4e									
NR949L	Yfiler™								
4e		15	11,14	12	28	23	11	13	13
		15	13	18		16	17		
							25		11
PCM6QX	Yfiler™ Plus								
4e	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
PCTBC2	Yfiler™ Plus								
4e	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
PK2RY2	Yfiler™ Plus								
4e	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
PPVR7A	Yfiler™								
4e		15	11,14	12	28	23	11	13	13
		15	13	18		16	17		
							25		11
PX2UVF	Yfiler™ Plus								
4e	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
QEBPF3	Yfiler™ Plus								
4e	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
QGUVPX	Yfiler™								
4e		15	11,14	12	28	23	11	13	13
		15	13	18		16	17		
							25		11
QGXKPN	Yfiler™ Plus								
4e	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
QL697V	Yfiler™								
4e		15	11,14	12	28	23	11	13	13
		15	13	18		16	17		
							25		11
QLDUBR	Yfiler™ Plus								
4e									

TABLE 2

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

Item 4e - YSTR Results

QMMZFF	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
4e	37	12		17	18	22	25		11
QNXQVC	PowerPlex® Y 23								
	4e								
QXKVK4	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
4e	37	12		17	18	22	25		11
RKCM4W	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
4e	37	12		17	18	22	25		11
RXJAV3	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
4e	37	12		17	18	22	25		11
T46GW8	Yfiler™								
		15	11,14	12	28	23	11	13	13
	15	12	13	18		16	17		22
4e							25		11
TCYMQ9	Yfiler™								
		15	11,14	12	28	23	11	13	13
	15	12	13	18		16	17		22
4e							25		11
TG4NDW	Yfiler™ Plus								
	4e								
TJDTQK	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
4e	37	12		17	18	22	25		11
TXX6NN	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
4e	37	12		17	18	22	25		11
U79WGJ	Yfiler™								
		15	11,14	12	28	23	11	13	13
	15	12	13	18		16	17		22
4e							25		11
UHXP2Y	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	15	12	13	18	29	16	17	11	22
4e	37	12		17	18	22	25		11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 4e - YSTR Results										
UJU9TT	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4e	15	12	13	18		16	17			
							25			11
V4WJCM	Yfiler™ Plus									
4e										
VMMQAR	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
VVXRVR	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37	12		17	18		25			11
VXLEBL	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
4e	15	12	13	18		16	17			22
		12	13	17	18		25	10		11
VYJRWT	PowerPlex® Y 23									
		Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested
4e	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested
		Not Tested	Not Tested	Not Tested	Not Tested		Not Tested	Not Tested	Not Tested	Not Tested
W8D4Y3	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
WHY872	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
WNZH4U	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4e	15	12	13	18		16	17			
							25			11
WRBTU3	Yfiler™ Plus									
4e										
WU2XJT	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4e	15	12	13	18		16	17			
							25			11
X3PAZE	Yfiler™									
	-	15	11,14	12	28	23	11	13	13	
4e	15	12	13	18	-	16	17	-	-	
	-	-	-	-	-	-	25	-	-	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

XAAZUM	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
XRY4J4	PowerPlex® Y 23								
4e									
XVRCEW	Yfiler™								
		15	11,14	12	28	23	11	13	13
4e	15	12	13	18		16	17		
							25		11
XVU3PL	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
4e	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
Y3LXZP	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37,38	12		17	18	22	25		11
YVLPBN	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
ZCPJGN	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
ZUBVEN	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4e	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 4sp - YSTR Results										
2HYXZC	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
2VJEUJ	Yfiler™									
	-	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	-	16	17	-	-	
	-	-	-	-	-	-	25	-	11	
373EWQ	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
3LNT2H	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25		11	
3LV6VU	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
3MYVP3	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
3NW4XL	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25		11	
3X4NGH	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25		11	
3X7JUL	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
3ZCU3J	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
44QUP3	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
4CEQFH	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25		11	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 4sp - YSTR Results										
4WPHRK	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25			11
6AM3GM	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
6BPLPJ	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37,(38)	12		17	18	22	25			11
6CZJ32	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25			11
6JCQEB	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
6N9HKL	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
6QWX2A	PowerPlex® Y 23									
4sp										
772P8J	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
78HUPH	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
7K3GTN	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25			11
7NRR2U	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
7V4RCW	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			22
		12	13	17	18		25	10		11

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4sp - YSTR Results									
88WL9Q	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
8WV7HL	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
4sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
963D6F	Yfiler™								
		15	11,14	12	28	23	11	13	13
4sp	15	12	13	18		16	17		
							25		11
98VXKL	PowerPlex® Y 23								
		15	11,14,(15)	12	28	23	11	13	13
4sp	15	12	(12),13	18		16,(17)	17		22
		12	13	17	18,(19)		25	10	11
9URQPN	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
A7DFQE	Yfiler™								
		15	11,14	12	28	23	11	13	13
4sp	15	12	13	18		16	17		
							25		11
AACUFP	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
4sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
ABQ89R	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
4sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
ACHE7A	Yfiler™ Plus								
4sp									
AGFPKH	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
AP24XK	Yfiler™								
		15	11,14	12	28	23	11	13	13
4sp	15	12	13	18		16	17		
							25		11
APBP4G	Yfiler™								
	N/A	15	11,14	12	28	23	11	13	13
4sp	15	12	13	18	N/A	16	17	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	25	N/A	11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 4sp - YSTR Results										
AT3AB6	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
AYD32W	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
BTJET4	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
BVBNRC	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25		11	
BWHWPB	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25		11	
C2CXX6	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
C6EXX2	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
CBJUJM	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
CVPEBF	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
CW3TW4	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
CXG7P8	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
DCMBUX	Yfiler™									
	-	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	-	16	17	-	-	
	-	-	-	-	-	-	25	-	11	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 4sp - YSTR Results										
DDHLYD	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
DKZVMA	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
DN4WEJ	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
DW88D9	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25		11	
DWFTH6	Yfiler™ Plus									
4sp										
DYZP2P	PowerPlex® Y 23									
		15	11,12,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
E3C6H8	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
EE6PXX	Yfiler™									
	-	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	-	16	17	-	-	
	-	-	-	-	-	-	25	-	11	
EF2ZX8	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25		11	
EW8F8E	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10	11	
EZCQFB	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25		11	
FB2BU6	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25		11	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 4sp - YSTR Results										
FUEVQ9	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25			11
FXW2DA	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
FYHDHB	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25			11
G2FB79	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25			11
G6YAAH	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10		11
GH4NHE	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25			11
GJVWFV	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
GL6L62	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10		11
GVN6EY	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
JWVJ6	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
K2XRGQ	PowerPlex® Y 23									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17		22	
		12	13	17	18		25	10		11
KGT6X8	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11

TABLE 2

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

Item 4sp - YSTR Results

KPMAQ9	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18	29	16	17	11
		37	12	NT	17	18	22	25	NT
									11
KXND9R	Yfiler™								
		15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18		16	17	
							25		11
L9H3C7	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18	29	16	17	11
		37	12		17	18	22	25	11
LENMP4	Yfiler™								
		15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18		16	17	
							25		11
LRT3GZ	Yfiler™								
		15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18		16	17	
							25		11
MTL9E7	Yfiler™								
		15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18		16	17	
							25		11
MXEGGR	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18	29	16	17	11
		37	12		17	18	22	25	11
N28ZVV	Yfiler™								
		15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18		16	17	
							25		11
N6C8VZ	Yfiler™								
		15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18		16	17	
							25		11
N74MQ4	Yfiler™								
		15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18		16	17	
							25		11
NN3KAZ	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18	29	16	17	11
		37	12		17	18	22	25	11
NPBWR2	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18	29	16	17	11
		37	12		17	18	22	25	11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 4sp - YSTR Results										
NR949L	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25			11
PCM6QX	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
PCTBC2	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
PK2RY2	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
PPVR7A	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25			11
PX2UVF	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
QEBPF3	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
QGUVPX	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25			11
QG XKPN	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11
QL697V	Yfiler™									
		15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18		16	17			
							25			11
QLDUBR	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37,38	12		17	18	22	25			11
QMMZFF	Yfiler™ Plus									
	35,37	15	11,14	12	28	23	11	13	13	
4sp	15	12	13	18	29	16	17	11	22	
	37	12		17	18	22	25			11

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4sp - YSTR Results									
QNXQVC	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
4sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
QXKVK4	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
RKCM4W	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
RXJAV3	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
T46GW8	Yfiler™								
		15	11,14	12	28	23	11	13	13
4sp	15	12	13	18		16	17		
							25		11
TCYMQ9	Yfiler™								
		15	11,14	12	28	23	11	13	13
4sp	15	12	13	18		16	17		
							25		11
TG4NDW	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
TJDTQK	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
TXX6NN	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
U79WGJ	Yfiler™								
		15	11,14	12	28	23	11	13	13
4sp	15	12	13	18		16	17		
							25		11
UHXP2Y	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
UJU9TT	Yfiler™								
		15	11,14	12	28	23	11	13	13
4sp	15	12	13	18		16	17		
							25		11

TABLE 2

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

Item 4sp - YSTR Results

V4WJCM	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
VMMQAR	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
WXRVR	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
VXLEBL	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18		16	17	
		12	13	17	18		25	10	11
VYJRWY	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18		16	17	
		12	13	17	18		25	10	11
W8D4Y3	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
WHY872	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
WNZH4U	Yfiler™								
		15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18		16	17	
							25		11
WRBTU3	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18	29	16	17	11
	37	12		17	18	22	25		11
WU2XJT	Yfiler™								
		15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18		16	17	
							25		11
X3PAZE	Yfiler™								
	-	15	11,14	12	28	23	11	13	13
	4sp	15	12	13	18	-	16	17	-
	-	-	-	-	-	-	25	-	11
XAAZUM	Yfiler™ Plus								
	4sp								

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4sp - YSTR Results									
XRY4J4	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
4sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
XVRCEW	Yfiler™								
		15	11,14	12	28	23	11	13	13
4sp	15	12	13	18		16	17		22
							25		11
XVU3PL	PowerPlex® Y 23								
		15	11,14	12	28	23	11	13	13
4sp	15	12	13	18		16	17		22
		12	13	17	18		25	10	11
Y3LXZP	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4sp	15	12	13	18	29	16	17	11	22
	37,38	12		17	18	22	25		11
YVLPBN	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
ZCPJGN	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11
ZUBVEN	Yfiler™ Plus								
	35,37	15	11,14	12	28	23	11	13	13
4sp	15	12	13	18	29	16	17	11	22
	37	12		17	18	22	25		11

Additional DNA Results

TABLE 3

Locus	WebCode	Item 1	Item 2	Item 3	Item 4e	Item 4sp
-------	---------	--------	--------	--------	---------	----------

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
2BQNFY	Yes	Yes	Yes	No	4TGNCL	Yes	Yes	Yes	No
2CLEH6	Yes	Yes	Yes	No	4WPHRK	Yes	Yes	Yes	No
2HYXZC	Yes	Yes	Yes	No	692882	Yes	Yes	Yes	No
2VJEUC	Yes	Yes	Yes	No	6AM3GM	Yes	Yes	Yes	No
2Y47EE	Yes	Yes	Yes	No	6BPLPJ	Yes	Yes	Yes	No
2YJNWQ	Yes	Yes	Yes	No	6CZJ32	Yes	Yes	Yes	No
373EWQ	Yes	Yes	Yes	No	6HEP4C	Yes	Yes	Yes	No
3AVCCG	Yes	Yes	Yes	No	6JCQEB	Yes	Yes	Yes	No
3GVR2P	Yes	Yes	Yes	No	6L7MQB	Yes	Yes	Yes	No
3LNT2H	Yes	Yes	Yes	No	6N9HKL	Yes	Yes	Yes	No
3LV6VU	Yes	Yes	Yes	No	6NCX2T	Yes	Yes	Yes	No
3M7NZX	Yes	Yes	Yes	No	6QWX2A	Yes	Yes	Yes	No
3MYVP3	Yes	Yes	Yes	No	772P8J	Yes	Yes	Yes	No
3NW4XL	Yes	Yes	Yes	No	78HUPH	Yes	Yes	Yes	No
3X4NGH	Yes	Yes	Yes	No	7BZ264	Yes	Yes	Yes	No
3X7JUL	Yes	Yes	Yes	No	7K3GTN	Yes	Yes	Yes	No
3XLRWV	Yes	Yes	Yes	No	7NRR2U	Yes	Yes	Yes	No
3ZCU3J	Yes	Yes	Yes	No	7QVMKW	Yes	Yes	Yes	No
42YVB4	Yes	Yes	Yes	No	7V4RCW	Yes	Yes	Yes	No
44QUP3	Yes	Yes	Yes	No	83EMF4	Yes	Yes	Yes	No Interp
4CEQFH	Yes	Yes	Yes	No	88WL9Q	Yes	Yes	Yes	No
4K9UJE	Yes	Yes	Yes	No	8TWML	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
8UNZTE	Yes	Yes	Yes	No	BQHJZT	Yes	Yes	Yes	No
8WV7HL	Yes	Yes	Yes	No	BTJET4	Yes	Yes	Yes	No
8XMBNE	Yes	Yes	Yes	No	BVBNRC	Yes	Yes	Yes	No
93WV4Y	Yes	Yes	Yes	No	BWHWPB	Yes	Yes	Yes	No
963D6F	Yes	Yes	Yes	No	BY9YWJ	Yes	Yes	Yes	No
968K33	Yes	Yes	Yes	No	C2CXX6	Yes	Yes	Yes	No
98VXKL	Yes	Yes	Yes	No	C6EXX2	Yes	Yes	Yes	No
9URQPN	Yes	Yes	Yes	No	CBJUJM	Yes	Yes	Yes	No
9XMGVZ	Yes	Yes	Yes	No	CCULQH	Yes	Yes	Yes	No
A7DFQE	Yes	Yes	Yes	No	CNH23W	Yes	Yes	Yes	No
AACUFP	Yes	Yes	Yes	No	CVPEBF	Yes	Yes	Yes	No
ABQ89R	Yes	Yes	Yes	No	CW3TW4	Yes	Yes	Yes	No
ACHE7A	Yes	Yes	Yes	No	CXG7P8	Yes	Yes	Yes	No
AG9UNP	Yes	Yes	Yes	No	DCMBUX	Yes	Yes	Yes	No
AGFPKH	Yes	Yes	Yes	No	DDHLYD	Yes	Yes	Yes	No
ANTV38	Yes	Yes	Yes	No	DDL2FK	Yes	Yes	Yes	No
AP24XK	Yes	Yes	Yes	No	DHVHMM	Yes	Yes	Yes	No
APBP4G	Yes	Yes	Yes	No	DKZVMA	Yes	Yes	Yes	No
AT3AB6	Yes	Yes	Yes	No	DN4WEJ	Yes	Yes	Yes	No
AYCEEQ	Yes	Yes	Yes	No	DW88D9	Yes	Yes	Yes	No
AYD32W	Yes	Yes	Yes	No	DWFTH6	Yes	Yes	Yes	No
B3VN8P	Yes	Yes	Yes	No	DYZP2P	Yes	Yes	Yes	No
BKFDKQ	Yes	Yes	Yes	No	E3C6H8	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
EBD4NN	Yes	Yes	Yes	No	H7RLWG	Yes	Yes	Yes	No
EC6CL7	Yes	Yes	Yes	No	HHHAU3	Yes	Yes	Yes	No
EE6PXX	Yes	Yes	Yes	No	HNKN9C	Yes	Yes	Yes	No
EECHBD	Yes	Yes	Yes	No	HNMEHF	Yes	Yes	Yes	No
EF2ZX8	Yes	Yes	Yes	No	J996GC	Yes	Yes	Yes	No
EQ67ZL	Yes	Yes	Yes	No	JA2BM4	Yes	Yes	Yes	No
EW8F8E	Yes	Yes	Yes	No	JCPP4R	Yes	Yes	Yes	No
EZCQFB	Yes	Yes	Yes	No	JUKJFP	Yes	Yes	Yes	No
F43QN3	Yes	Yes	Yes	No	JWFVJ6	Yes	Yes	Yes	No
FB2BU6	Yes	Yes	Yes	No	K2XRGQ	Yes	Yes	Yes	No
FBCU8C	Yes	Yes	Yes	No	KGT6X8	Yes	Yes	Yes	No
FUEVQ9	Yes	Yes	Yes	No	KHWM74	Yes	Yes	Yes	No
FW6364	Yes	Yes	Yes	Inc	KPMAQ9	Yes	Yes	Yes	No
FXW2DA	Yes	Yes	Yes	No	KR2MLW	Yes	Yes	Yes	No
FYHDHB	Yes	Yes	Yes	No	KTW9EN	Yes	Yes	Yes	No
G2FB79	Yes	Yes	Yes	No	KXND9R	Yes	Yes	Yes	No
G6YAHH	Yes	Yes	Yes	No	L9H3C7	Yes	Yes	Yes	No
GANYUE	Yes	Yes	Yes	No	L9LLK4	Yes	Yes	Yes	No
GH4NHE	Yes	Yes	Yes	No	LENMP4	Yes	Yes	Yes	No
GHKPKG	Yes	Yes	Yes	No	LFE3K8	No	Yes	Yes	No
GJWWFW	Yes	Yes	Yes	No	LFGRWW	Yes	Yes	Yes	No
GL6L62	Yes	Yes	Yes	No	LH8M2D	Yes	Yes	Yes	No
GVN6EY	Yes	Yes	Yes	No	LRT3GZ	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
MAQMRU	Yes	Yes	Yes	No	PK2RY2	Yes	Yes	Yes	No
MCW7QF	Yes	Yes	Yes	No	PPVR7A	Yes	Yes	Yes	No
MHKRKV	Yes	Yes	Yes	No	PX2UVF	Yes	Yes	Yes	No
MPLY9B	Yes	Yes	Yes	No	QEBPF3	Yes	Yes	Yes	No
MRU39D	Yes	Yes	Yes	No	QGUVPX	Yes	Yes	Yes	No
MTL9E7	Yes	Yes	Yes	No	QG XKPN	Yes	Yes	Yes	No
MXEGGR	Yes	Yes	Yes	No	QL697V	Yes	Yes	Yes	No
N28ZW	Yes	Yes	Yes	No	QLDUBR	Yes	Yes	Yes	No
N6C8VZ	Yes	Yes	Yes	No	QMMZFF	Yes	Yes	Yes	No
N74MQ4	Yes	Yes	Yes	No	QNXQVC	Yes	Yes	Yes	No
NBKQWE	Yes	Yes	Yes	No	QQ8QZJ	Yes	Yes	Yes	No
NBWNQX	Yes	Yes	Yes	No	QXKVK4	Yes	Yes	Yes	No
NBWNTJ	Yes	Yes	Yes	No	R3YYC	Yes	Yes	Yes	No
NCWFCK	Yes	Yes	Yes	No	RKCM4W	Yes	Yes	Yes	No
NFQG88	Yes	Yes	Yes	No	RL8X8M	Yes	Yes	Yes	No
NKALUA	Yes	Yes	Yes	No	RP893M	Yes	Yes	Yes	No
NN3KAZ	Yes	Yes	Yes	No	RXJAV3	Yes	Yes	Yes	No
NPBWR2	Yes	Yes	Yes	No	T46GW8	Yes	Yes	Yes	No
NR949L	Yes	Yes	Yes	No	T63UHE	Yes	Yes	Yes	No
NX9GX3	Yes	Yes	Yes	No	T9V8QW	Yes	Yes	Yes	No
PCM6QX	Yes	Yes	Yes	No	T9YM84	Yes	Yes	Yes	No
PCTBC2	Yes	Yes	Yes	No	TCYMQ9	Yes	Yes	Yes	No
PG4GUU	Yes	Yes	Yes	No	TG4NDW	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
TH6KV8	Yes	Yes	Yes	No	WAJTX6	Yes	Yes	Yes	No
TJDTQK	Yes	Yes	Yes	No	WGU2BY	Yes	Yes	Yes	No
TXWEDY	Yes	Yes	Yes	No	WHY872	Yes	Yes	Yes	No
TX6NN	Yes	Yes	Yes	No	WNZH4U	Yes	Yes	Yes	No
TZXGZF	Yes	Yes	Yes	No	WPN74Z	Yes	Yes	Yes	No
U79WGJ	Yes	Yes	Yes	No	WRBTU3	Yes	Yes	Yes	No
UHXP2Y	Yes	Yes	Yes	No	WU2XJT	Yes	Yes	Yes	No
UJAL2X	Yes	Yes	Yes	No	WXKWW3	Yes	Yes	Yes	No
UJERZK	Yes	Yes	Yes	No	X3PAZE	Yes	Yes	Yes	No
UJU9TT	Yes	Yes	Yes	No	X9JYPY	Yes	Yes	Yes	No
V4WJCM	Yes	Yes	Yes	No	XAAZUM	Yes	Yes	Yes	No
V66PJV	Yes	Yes	Yes	No	XCGJTH	Yes	Yes	Yes	No
V8AH9N	Yes	Yes	Yes	No	XRY4J4	Yes	Yes	Yes	No
VMMQAR	Yes	Yes	Yes	No	XVRCEW	Yes	Yes	Yes	No
VQPKC3	Yes	Yes	Yes	No	XVU3PL	Yes	Yes	Yes	No
VQR3KY	Yes	Yes	Yes	No	XYBH2Y	Yes	Yes	Yes	No
VXRVVR	Yes	Yes	Yes	No	Y3LXZP	Yes	Yes	Yes	No
VXLEBL	Yes	Yes	Yes	No	YCYZCH	Yes	Yes	Yes	No
VYJRWT	Yes	Yes	Yes	No	YEP2G7	Yes	Yes	Yes	No
VYM8DZ	Yes	Yes	Yes	No	YNQB3A	Yes	Yes	Yes	No
W64Z36	Yes	Yes	Yes	No	YRPUW	Yes	Yes	Yes	No
W6PRXB	Yes	Yes	Yes	No	YVLPBN	Yes	Yes	Yes	No
W8D4Y3	Yes	Yes	Yes	No	Z3C2KC	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
ZCNJJ9	Yes	Yes	Yes	No					
ZCPJGN	Yes	Yes	Yes	No					
ZQDGRY	Yes	Yes	Yes	No					
ZQFZZV	Yes	Yes	Yes	No					
ZQUFZQ	Yes	Yes	Yes	No					
ZTJQ9W	Yes	Yes	Yes	No					
ZUBVEN	Yes	Yes	Yes	No					

DNA Interpretation					
Response Summary			Participants reporting DNA results: 235		
<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		234	235	235	0
No		1	0	0	233
Inc		0	0	0	1
No Interpretation		0	0	0	1
No Response		0	0	0	0

Participants analyzing DNA for database purposes only: 0

Additional Comments

TABLE 5

WebCode	Additional Comments
2VJEU	Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using Chelex extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification kit on QuantStudio 5. Amplification was performed on 9700 GeneAmp PCR System for: Item 1, Item 2, Item 3 and Item 4 were amplified using Identifiler Plus kit. Item 2, Item 3 and Item 4 were amplified using Y-Filter Kit. Electrophoresis: Amplified product of Identifiler Plus from Item 1, Item 2, Item 3 and Item 4 were run on Genetic Analyzer 3500xl. Amplified product of Y-filter from Item 2, 3 and 4 were run on Genetic Analyzer 3130xl. Quality Control: All reagent blank, positive control, negative control, were carried out through out the analysis an all gave intended results.
3GVR2P	Probabilistic genotyping by using the LRmix Studio software (v. 2.1.5) provided the following results (using published caucasian database): Item 3 (mixture): 1- DNA data extremely strongly support the victim (Item 1) as donor of DNA found on Item 3 (mixture): LR=1.8 E12, using P(do)=0.14, P(Di)=0.05. 2- DNA data extremely strongly support the suspect (Item 2) as donor of DNA found on Item 3 (mixture): LR=1.2 E11, using P(do)=0.2, P(Di)=0.05. 3- in conclusion DNA data extremely strongly support the victim (Item 1) and the suspect (Item 2) as donors of DNA found on Item 3 (mixture) (vs the victim (Item 1) and an unknown contributor): LR=2.6 E17, using P(do)=0.23, P(Di)=0.05. Item 4 (mixture) 1- DNA data extremely strongly support the victim (Item 1) as donor of DNA found on Item 4 (mixture): LR=6.8 E11, using P(do)=0.10, P(Di)=0.05. 2- DNA data the suspect (Item 2) is EXCLUDED as donor of DNA found on Item 3 (mixture): LR=1.3 E-26, using P(do)=0.1, P(Di)=0.05. 3- in conclusion DNA data extremely strongly support the victim (Item 1) and an unknown contributor as donors of DNA found on Item 3 (mixture) (vs the victim (Item 1) and the suspect (Item 2)): LR=8.4 E40, using P(do)=0.23, P(Di)=0.05.
3LNT2H	Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted by using the Chelex extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler™ Human DNA Quantification Kit on Applied Biosystems™ 7500 Real-Time PCR Systems. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using AmpFLSTR™ Identifiler™ Plus Kit on Applied Biosystems™ GeneAmp™ PCR System 9700. Item 2, Item 3 and item 4 were also amplified by using Yfiler™ PCR Amplification Kit on Applied Biosystems™ GeneAmp™ PCR System 9700. Electrophoresis: Electrophoresis was carried out on Applied Biosystems™ 3500XL Genetic Analyzer and the data were analyzed with GeneMapper ID-X v1.5 software. Quality control: Reagent Blank, Positive Control and Negative Control were included throughout the analysis and all gave intended results.
3MYVP3	NR = No Reults
3X4NGH	1. Item 1, Item 2, Item 3 and Item 4 were extracted using Chelex extraction method. 2. Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantifiler Kit on the Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 System. 3. Item 1, Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Identifiler Plus 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 AmpFLSTR Y-filer PCR Amplification kit on the 9700 GeneAmp PCR System. 4. Electrophoresis was carried out on the Applied Biosystems 3500 Genetic Analyser with GeneMapper ID-X Software for Item 1, Item 2, Item 3 and Item 4. 5. Reagent blank, positive control and negative control were analysed throughout the analysis and all gave the intended results.
3X7JUL	NR = No Results obtained
4WPHRK	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
6AM3GM	NR = No Results
6BPLPJ	regarding item 4 locus DYS518 an 38 allele appeared next to a real 37 in a +1 stutter position (>5% accepted lab stutter ratio for this locus in our lab). In our lab, such an appearance would normally require additional investigation before deciding how to report this allele. If we were unable to solve the question regarding this locus, we would possibly not include this locus in our report and use it for comparison only.
6NCX2T	Item 4 was extracted using both the Maxwell 16 robot and organic methods. Minor alleles between fractions of Item 4 are consistent with carryover from one fraction to the other. The carryover alleles between fractions slightly differed between extraction methods. Elevated stutter was detected in the following samples: Maxwell and organic extractions of Item 3: elevated stutter in 16.2 position at D19S433; Organic extraction of Item 4, sperm fraction: elevated stutter in 23 position at D12S391.

TABLE 5

WebCode	Additional Comments
78HUPH	E fraction of Item 4 not amplified in YFiler Plus; only amplified in GlobalFiler
98VXKL	The minor results reported in the Y-STR portion of Item 4sp are all in stutter positions and could be due to elevated stutter.
AG9UNP	item 4 (sperm profile) did not match with item 2 (suspect male profile).
AGFPKH	NR = No Results. Item 1 was not analyzed for male-specific (Y-STR) DNA.
APBP4G	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
AT3AB6	NR = no results
BVBNRC	[] - indicates minor alleles and alleles between analytical and stochastic thresholds
C6EXX2	NR = No Results
CVPEBF	NR = No Results. Y-STR analysis was not performed on item 1.
DCMBUX	Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using chelex extraction method. Quantitation: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Human Quantification Kit via QuantStudio5. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using AMPFISTR Identifiler Plus 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 Identifiler Plus 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 3130xl. Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
DDHLYD	NP = not present
DWFTH6	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. With regard to the Yfiler Plus amplification of Item 4 (e fraction), at DYS627 there were two DNA types detected. The smaller of the two peaks fell into a stutter position of the taller peak, and could be considered stutter. However, it was slightly above the stutter observed in our kit validation, therefore this peak was considered allelic for this interpretation, as per lab policy, but was not considered as part of the major haplotype.
EE6PXX	Extraction: Item 1, Item 2, Item3 and Item 4 were extracted using chelex method. Quantitation: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Human Quantification Kit via QuantStudio5. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using AMPFISTR Identifiler Plus 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 Identifiler Plus 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 3130xl. Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
EECHBD	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.
EZCQFB	NR = no results

TABLE 5

WebCode	Additional Comments
F43QN3	For Item 4 a differential extraction was used, based on fenol/chloroform/isoamyl buffer (preferential method). In epithelial fraction of item 4m, two person mixture was obtained. In sperm fraction of Item 4 no results were obtained as autosomal DNA genotyping (PowerPlex Fusion 6C) as Y-STR (Y-filer Plus). Conclusion: Item 3: The DNA findings are at least LR= 1,44 x 10 ³⁸ more probable if hypothesis Hp is true, which says the suspect and victim are the donors of DNA to the sample, compared to its alternative, described by hypothesis Hd, which says that the donors are two different, unknown, unrelated persons from population Item 4: The DNA findings are at least LR= 1,33 x 10 ¹⁵ more probable if hypothesis Hp is true, which says the victim and one different, unknown, unrelated person are the donors of DNA to the sample, compared to its alternative, described by hypothesis Hd, which says that the donors are two different, unknown, unrelated persons from population. Suspect can be excluded from Item 4.
FBCU8C	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.
FW6364	The Item 4 epithelial fraction indicated 3 contributors at the FGA locus including a peak (23) above our detection level but below our reporting level. The suspect (Item 2) would be reported in our laboratory as: It is estimated that the mixed DNA profile obtained is approximately 150 times more likely to have occurred if he has not contributed DNA, rather than if he has.
FXW2DA	NR = No results. Item 1 not analyzed for Y-STR (known sample from female).
FYHDHB	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds.
G2FB79	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
GH4NHE	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
GVN6EY	NR = No results
HNKN9C	ND = not detected
KGT6X8	NR = No results
KPMAQ9	NR = no results. NT = not tested.
KR2MLW	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.
KXND9R	Y-STR analysis was not performed on Item 1 because no male DNA was detected using Quantifiler Trio.
L9H3C7	NR = No Results
LENMP4	"[] - indicates minor allele/s and alleles between analytical and stochastic thresholds"
MXEGGR	NR = No Results
N28ZVW	Extraction: Item 1, Item 2 and Item 3 were extracted using Chelex Extraction while Item 4 was extracted using Chelex Differential Extraction. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using the Quantifiler Human DNA quantitation kit and carried out by 7500 Real-Time PCR. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using AMPFISTR Identifiler Plus Kit on 9700 GeneAmp PCR System. Item 2, Item 3 and Item 4 were amplified using AMPFLSTR YFiler Kit on 9700 GeneAmp PCR System. Electrophoresis: The electrophoresis process was carried out by Genetic Analyser 3500xl for Item 1 to Item 4. Quality Control: Reagent blank, positive control, and negative control were carried out along with the analysis and all gave the intended results.
N6C8VZ	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds

TABLE 5

WebCode	Additional Comments
NPBWR2	Markers with empty boxes indicate that no experiment was performed. Markers filled with a single dash "-" indicate that no allele resulted. The likely minor alleles in item "4 e" were enclosed within brackets "[]". The Mixture Interpretation Threshold used for analysis was 175 RFU. The DNA profile detected in "item 3" appears to be a mixture of at least two contributors; both the victim "item 1" and the suspect "item 2" cannot be excluded as contributors in the DNA evidence detected in this sample. A trace of the DNA profile of the epithelial cells fraction was present in "item 4 sp". The DNA profile was deduced from "item 4 sp" after taking into consideration the contribution of the known victim. This DNA profile detected in the sperm cell fraction of "item 4", came from an unknown male.
PCTBC2	NR = no results. Y-STR testing was not performed on the female victim known sample (item 1).
PG4GUU	Item 1: A female DNA profile was obtained from the reference sample relating to the female victim. Item 2: A male DNA profile was obtained from the reference sample relating to the male suspect. Item 3: Blood was detected. A mixed DNA profile from at least two contributors was obtained. Female victim cannot be excluded as a contributor to this profile. Male suspect cannot be excluded as a contributor to this profile. Item 4: Blood was detected. Semen was detected. Sperm fraction: A mixed DNA profile from at least two contributors was obtained. One contributor, referred to as Male 1, was obtained from this profile. The remainder of the profile is not suitable for identification purposes. The second contributor consists only of 1 allele (23 in FGA) of a low peak height (333 RFU, where our threshold is 225 RFU). Female victim is excluded as a contributor to this profile. Male suspect is excluded as a contributor to this profile. Epithelial fraction: A mixed DNA profile from at least two contributors was obtained. Female victim cannot be excluded as a contributor to this profile. Male 1 cannot be excluded as a contributor to this profile. Male suspect is excluded as a contributor to this profile. This is an interim report only. A statement can be issued upon request.
PK2RY2	NR = no result
PX2UVF	NR = No Results
QEBPF3	Item 1 not analyzed using Y-Filer due to the sample being female.
QG XKPN	NR = No Results
QLDUBR	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.
QMMZFF	NR = No Results
RXJAV3	() denotes the assumed donor
T46GW8	No male DNA was detected for Item 1.
T9YM84	ND = Not Detected
TJDTQK	NR = no results
U79WGJ	Y-STR analysis was not performed on item 1 because no male DNA was detected using Quantifiler Trio.
UJAL2X	mRMP by Familias 3: Item 1 = 1.095E+32, Item 2 = 2.335E+28. LR by LRmix Studio: Item 3 Item 1 + 1 unkn / 2 unkn = 6.98E+15 (d.o. 0.1), Item 2 + 1 unkn / 2 unkn = 9.07E+13 (d.o. 0.1), 8.20E+13 (d.o. 0.11), Item 1 + Item 2 / 2 unkn = 8.70E+37 (d.o. 0.1), 6.72E+37 (d.o. 0.11), Item 4 Item 1 + 1 unkn / 2 unkn = 9.00E+15 (d.o. 0.1), Item 2 + 1 unkn / 2 unkn = 7.71E-27 (d.o. 0.1), Item 1 + Item 2 / Item 1 + 1 unkn = 1.28E-43 (d.o. 0.1)
UJU9TT	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
V4WJCM	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
V66PJV	We performed statistical analysis of results using "LRMix studio v.2.1.3 -Community Edition" (H.Henced, P.Gill, 2016)as we do with normal results. Value of LR was interpreted in respect of value of the proof and was express in words, using the ENFSI recommendation (ENFSI guideline for evaluative reporting in forensic science, 2015). LR value was count only for Item 3 stain, because we had confirmed comparative material from the 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. This statistical analysis contain two conclusions: 1)Proof from genetic analysis for Item 3 stain give extreme high support (LR=2,81x10 to the power of 14)for hypothesis, that this sample contain DNA of the victim (Item 1) and different DNA belong to unknown (NN), not-related person, against to alternative hypothesis saying that Item 3 stain contain DNA of two different, unknown (NN), not-related persons. (Item 1 + NN : NN + NN, LR=2,81 x 10 to the power of 14, dropout probability 0,12). 2)Proof from genetic analysis for Item 3 stain give extreme high support (LR=9,86x10 to the power of 11)for hypothesis, that this sample contain DNA of the suspect(Item 2) and different DNA belong to unknown (NN), not-related person, against to alternative hypothesis saying that Item 3 stain contain DNA of two different, unknown (NN), not-related persons. (Item 1 + NN : NN + NN, LR=9,86 x 10 to the power of 11, dropout probability 0,12)
VYM8DZ	In the mixture sample Item 3. I marked a peak as elevated stutter (at the 16.2 location at D19S433, the peak also had elevated baseline from the 16 peak. Results of the Maxwell and Organic extractions were combined for reporting purposes.
WU2XJT	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
X3PAZE	Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using chelex method. Quantitation: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Human Quantification Kit via QS5. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using AMPFISTR Identifiler Plus 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 Identifiler Plus 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 3130xl. Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
XAAZUM	Yfiler Plus testing only performed on Item 4e, not Item 4s.

-End of Report-
(Appendix may follow)

Test No. 20-5801: DNA-Mixture

DATA MUST BE SUBMITTED BY **March 9, 2020, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234H

WebCode: U76A2Q

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

Scenario:

Police are investigating the sexual assault of a female victim. The victim's claim is that while attending a friend's party she had a few drinks and started to feel dizzy. The victim then went into a bedroom to lay down. When she woke up in the morning, she was completely naked. She vaguely remembers fighting off her friend and another man. Police identified her friend as a suspect but were unable to identify the other man. Investigators are submitting a stain from a shirt (Item 3) the suspect was wearing and a stain from the underwear (Item 4) the victim was wearing. Screening has been performed on both samples with the following results: Item 3 (suspect's shirt) is positive for blood, and Item 4 (victim's underwear) is positive for blood and semen. Also collected were known blood samples from the female victim (Item 1) and the male suspect (Item 2).

Items Submitted (Sample Pack S1):

Item 1: Known blood from the female victim

Item 2: Known blood from the male suspect

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

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

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						

YSTR Amplification Kit(s) Used:

Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

YFiler™
 PowerPlex® Y
 Other

Alleles below are sorted in **Default** order.

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

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

- 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
2						
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
2						
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
2						
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
2						
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
2						

YSTR Amplification Kit(s) Used:

Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

YFiler™
 PowerPlex® Y
 Other

Alleles below are sorted in Default order.

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

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

- 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®

PowerPlex®

GlobalFiler™

Other

Investigator® 24plex

Report the Probabilistic Genotyping Software Used (if applicable):

Did you perform a differential extraction of Item 3? YES NO

Alleles below are sorted in **Default** order.

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3						
3 e						
3 sp						
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
3						
3 e						
3 sp						
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
3						
3 e						
3 sp						
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
3						
3 e						
3 sp						
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
3						
3 e						
3 sp						

YSTR Amplification Kit(s) Used:

Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

YFiler™

PowerPlex® Y

Other

Did you perform a differential extraction of Item 3? YES NO

Alleles below are sorted in **Default** order.

ITEM	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
3									
3 e									
3 sp									
ITEM	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
3									
3 e									
3 sp									
ITEM	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
3									
3 e									
3 sp									

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

- 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®

PowerPlex®

GlobalFiler™

Other

Investigator® 24plex

Report the Probabilistic Genotyping Software Used (if applicable):

Did you perform a differential extraction of Item 4? YES NO

Alleles below are sorted in **Default** order.

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4						
4 e						
4 sp						
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
4						
4 e						
4 sp						
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
4						
4 e						
4 sp						
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
4						
4 e						
4 sp						
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
4						
4 e						
4 sp						

YSTR Amplification Kit(s) Used:

Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

YFiler™

PowerPlex® Y

Other

Did you perform a differential extraction of Item 4? YES NO

Alleles below are sorted in **Default** order.

ITEM	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
4									
4 e									
4 sp									
ITEM	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
4									
4 e									
4 sp									
ITEM	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
4									
4 e									
4 sp									

Part I (continued): DNA Analysis - Additional DNA

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

Did you perform a differential extraction of Item 3? Yes No

Did you perform a differential extraction of Item 4? Yes No

Locus	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4	Item 4e	Item 4sp

Part II: DNA INTERPRETATION

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

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

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

Part III: ADDITIONAL COMMENTS

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

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

RELEASE OF DATA TO ACCREDITATION BODIES

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

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

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

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

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

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

A2LA Certificate No.

Step 2: Complete the Laboratory Identifying Information in its entirety

Authorized Contact Person and Title

Laboratory Name

Location (City/State)