



DNA-Mixture Test No. 21-5806

Summary Report

Each participant received a sample pack consisting of two known bloodstains and two questioned stains which they were requested to analyze using their existing protocols. Data were returned from 222 participants and are compiled into the following tables:

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

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

Manufacturer's Information

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

SAMPLE PREPARATION: The stains in Items 1, 2, and 4 were prepared from human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. The stain in Item 3 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 (75 μ l) was prepared using blood collected from a female donor. Item 2 (75 μ l) was created using blood collected from a male donor. Item 3 (50 μ l) was created using a mixture of blood from the female donor used in Item 1 and semen from the male donor used in Item 2. Item 4 (50 μ l) was created using a 1:1 mixture of blood from the female donor used in Item 1 and blood collected from a male donor, but one different than that of Item 2. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on October 18, 2021 following completion of verification stage.

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

Manufacturer's Information, continued

Amelogenin and STR Results

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	12,12	17,24	11,14	15,16	12,12	*
	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	11,12	13,16	22,2,27.2	9,9.3	8,11
	16,17	NM	NM	NM	NM	
2	13,15	19,24	12,13	12,18	8,11	*
	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	19,28.2	7,7	8,8
	11,18	10	19	17	2	
3-Blood	12,12	17,24	11,14	15,16	12,12	*
	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	11,12	13,16	22,2,27.2	9,9.3	8,11
	16,17	NM	NM	NM	NM	
3-Semen	13,15	19,24	12,13	12,18	8,11	*
	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	19,28.2	7,7	8,8
	11,18	10	19	17	2	
4	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	*
	7,10,11	12,14	13,14	17,18,19,23	12,12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	17,18,22,2,27.2	9,9.3	8,10,11
	16,17	10	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	37,38	14	17,17	13	30	21	10	11	13
	14	11	13	21	32	15	20	10	25
	41	12	12	19	17	16	22	13	11
3-Semen	37,38	14	17,17	13	30	21	10	11	13
	14	11	13	21	32	15	20	10	25
	41	12	12	19	17	16	22	13	11
4	35,35	14	11,14	13	29	24	10	12	12
	15	12	12	19	29	15	17	10	22
	38	12	12	17	18	21	23	10	12

* 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 21-5806 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 prepared using blood collected from a female donor. Item 2 was prepared using blood collected from a male donor. Item 3 was created using a mixture of blood from the female donor used in Item 1 and semen from the male donor used in Item 2. Item 4 was created using a mixture of blood from the female donor used in Item 1 and blood collected from a male donor, but one different than that of Item 2. (See Manufacturer's Information for preparation details)

Of the 222 participants that returned results, 211 reported DNA interpretations. Three participants did not respond, six stated that the samples were analyzed for database purposes only, and two selected the "No Interpretations" option individually for all Interpretation questions.

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

For the Item 4 stain, 210 participants included the victim (Item 1) and one participant reported "Inconclusive" as to whether the victim was a possible contributor. A total of 209 participants excluded the suspect (Item 2) and two participants reported "Inconclusive" as to whether the suspect was a possible contributor.

A total of 22 participants were missing alleles at one or more loci. One consistency was noted; all missing alleles belong to the male profile of the blood/blood mixture.

A total of 76 participants reported the use of Probabilistic Genotyping (PG) software on either solely the questioned items or all four items. Two of these participants reported additional alleles at several loci. Based on the interpretations described above, these inconsistencies did not appear to affect participant's conclusions.

STR Amplification Kit(s) & Results

TABLE 1

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

Item 1 - STR Results

29MXAH	PowerPlex® Fusion 6C					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	12,12
		14,20	13,14	29,29	15,15	X,X
		21,25	11,12	13,16	22.2,27.2	9,9.3
		16,17	NR	NR	NR	NR
2JN9W8	PowerPlex® Fusion 6C (STRmix)					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25	11,12	13,16	22.2,27.2	9,9.3
		16,17				
2MYMXH	PowerPlex® Fusion 6C					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	12,12
		14,20	13,14	29,29	15,15	X,X
		21,25	11,12	13,16	22.2,27.2	9,9.3
		16,17	-	-	-	-
2UM4RG	GlobalFiler™					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				
2VFU33	GlobalFiler™					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	12,12
		14,20	13,14	29,29	15,15	X,X
		21,25			22.2,27.2	9,9.3
		16,17				
2Z9YTK	GlobalFiler™					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	12,12
		14,20	13,14	29,29	15,15	X,X
		21,25			22.2,27.2	9,9.3
		16,17				

TABLE 1

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

Item 1 - STR Results

3BN68Z	PowerPlex®					
		12	17,24	11,14	15,16	
1			14	13,14	17,23	10,12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				
3C3PZB	PowerPlex® Fusion 6C					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	12,12
		14,20	13,14	29,29	15,15	X,X
		21,25	11,12	13,16	22.2,27.2	9,9.3
		16,17	ND	ND	ND	8,11
3GVWA7	Identifiler® Direct					
			17,24		15,16	12
1		11	14		12	10,12
		14,20	13,14	29	X,X	11,12
		21,25			9,9.3	8,11
		16,17				
3H8LJB	Identifiler® Plus					
			17,24		15,16	12,12
1		11,11	14,14		12,12	10,12
		14,20	13,14	29,29	X,X	11,12
		21,25			9,9.3	8,11
		16,17				
3NUKPP	GlobalFiler™					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				8,11
3P7XV8	Identifiler® Direct					
			17,24		15,16	12
1		11	14		12	10,12
		14,20	13,14	29	X,X	11,12
		21,25			9,9.3	8,11
		16,17				
3WPCHD	GlobalFiler™					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17	No results			8,11
					No results	

TABLE 1

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

Item 1 - STR Results

4478Y8	GlobalFiler™					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	12,12
		14,20	13,14	29,29	15,15	X,X
		21,25	N/A	N/A	22.2,27.2	9,9.3
		16,17	NSD	N/A	N/A	NSD
44P3HU	PowerPlex® Fusion					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	12,12
		14,20	13,14	29,29	15,15	X,X
		21,25	11,12	13,16	not tested	9,9.3
		16,17	not detected	not tested	not tested	not tested
49FA3N	PowerPlex® Fusion 6C, GlobalFiler™					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	12,12
		14,20	13,14	29,29	15,15	X,X
		21,25			22.2,27.2	9,9.3
		16,17	Not Detected			Not Detected
49VWB6	PowerPlex® Fusion 6C (STRmix)					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25	11,12	13,16	22.2,27.2	9,9.3
		16,17				
4H7XW6						
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	12,12
		14,20	13,14	29,29	15,15	X,X
		21,25			22.2,27.2	9,9.3
		16,17				8,11
4HKK8R	PowerPlex® Fusion 5C					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	12,12
		14,20	13,14	29,29	15,15	X,X
		21,25	11,12	13,16	Not tested	9,9.3
		16,17	ND	Not tested	Not tested	Not tested
4HNZME	GlobalFiler™ Direct					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				8,11

TABLE 1

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

Item 1 - STR Results

4KPCZ6	Identifiler® Direct					
		17,24		15,16	12	
1		11	14		12	10,12
		14,20	13,14	29	X,X	11,12
		21,25			9,9.3	8,11
		16,17				
4LJZH2	GlobalFiler™					
		17,24	11,14	15,16	12	
1		11	13,14	17,23	12	10,12
		14,20	29	15	X	11,12
		21,25		22.2,27.2	9,9.3	8,11
		16,17				
4LNBHD	GlobalFiler™ Direct					
		17,24	11,14	15,16	12	
1		11	13,14	17,23	12	10,12
		14,20	29	15	X	11,12
		21,25		22.2,27.2	9,9.3	8,11
		16,17				
4PPAXD	GlobalFiler™					
		17,24	11,14	15,16	12	
1		11	13,14	17,23	12	10,12
		14,20	29	15	X	11,12
		21,25		22.2,27.2	9,9.3	8,11
		16,17				
4QXDJN	GlobalFiler™					
		17,24	11,14	15,16	12	
1		11	13,14	17,23	12	10,12
		14,20	29	15	X	11,12
		21,25		22.2,27.2	9,9.3	8,11
		16,17				
4RPMEB	GlobalFiler™					
		17,24	11,14	15,16	12,12	N/A
1		11,11	13,14	17,23	12,12	10,12
		14,20	29,29	15,15	X,X	11,12
		21,25	N/A	22.2,27.2	9,9.3	8,11
		16,17	N/A	N/A	N/A	
6AN7LX	GlobalFiler™					
		17,24	11,14	15,16	12,12	
1		11,11	13,14	17,23	12,12	10,12
		14,20	29,29	15,15	X,X	11,12
		21,25		22.2,27.2	9,9.3	8,11
		16,17	null		null	

TABLE 1

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

6JVLUQ	GlobalFiler™					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	12,12
		14,20	13,14	29,29	15,15	X,X
		21,25			22.2,27.2	9,9.3
		16,17	NR			NR
6NKEM7	GlobalFiler™					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	12,12
		14,20	13,14	29,29	15,15	X,X
		21,25			22.2,27.2	9,9.3
		16,17				8,11
6NPHGW	Investigator® 24plex					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	12,12
		14,20	13,14	29,29	15,15	X,X
		21,25			22.2,27.2	9,9.3
		16,17	N/A			8,11
6ZFCPJ	GlobalFiler™					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				8,11
78VFBC	GlobalFiler™ (STRmix)					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				8,11
7BUQ8C	GlobalFiler™					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				8,11
7DMHGX	PowerPlex® 6C					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25	11,12	13,16	22.2,27.2	9,9.3
		16,17				8,11

TABLE 1

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

Item 1 - STR Results

7J9QMA	GlobalFiler™					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17	No Results			No Results
7JM9GE	PowerPlex® Fusion 6C (STRmix 2.6.3)					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25	11,12	13,16	22.2,27.2	9,9.3
		16,17				
7LUJDH	GlobalFiler™ (STRmix)					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				
7RKUMG	GlobalFiler™ (STRmix)					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				
7Y49GD	GlobalFiler™					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				
83ZU8G	GlobalFiler™					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				
86LPNU	GlobalFiler™ Express					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17	No Results			No Results

TABLE 1

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

Item 1 - STR Results

8HEA4K	GlobalFiler™ IQC					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	12,12
		14,20	13,14	29,29	15,15	X,X
		21,25			22.2,27.2	9,9.3
		16,17	//	//	//	//
8MKZ8Q	GlobalFiler™ Express					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17	No Results			No Results
8WV2TR	GlobalFiler™ Express					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17	no results			no results
8YFAX7	Identifiler® Plus					
			17,24		15,16	12,12
1		11,11	14,14			12,12
		14,20	13,14	29,29		X,X
		21,25				9,9.3
		16,17				
92ZMUU	ESI17 Fast (DNA Insight)					
		12,12	17,24	11,14	15,16	Not tested
1		Not tested	14,14	13,14	17,23	Not tested
		14,20	13,14	29,29	15,15	X,X
		21,25	Not tested	Not tested	22.2,27.2	9,9.3
		16,17	Not tested	Not tested	Not tested	Not tested
9B9WLT	GlobalFiler™ Express					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X,X
		21,25			22.2,27.2	9,9.3
		16,17	NM			NM
9DG369	GlobalFiler™ Direct					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				8,11

TABLE 1

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

Item 1 - STR Results

9F4QG9	GlobalFiler™ (STRmix)					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
9NBN3Q	GlobalFiler™ Express					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17	No Results			No Results	
9NW2PJ	GlobalFiler™ (STRmix)					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
9YPPFC	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
9Z9GGA	PowerPlex® PFusion 6C					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	11,12	13,16	22.2,27.2	9,9.3	8,11
	16,17	NR	NR	NR		
A6HTEA	GlobalFiler™ Direct					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
A8LWHH	PowerPlex® Fusion 6C					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	11,12	13,16	22.2,27.2	9,9.3	8,11
	16,17					

TABLE 1

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

Item 1 - STR Results

A9VKGW	PowerPlex® Fusion 5C					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25	11,12	13,16		9,9.3	8,11
	16,17	NR				
AELY4H	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
AFW4EL	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
AFYQXK	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
AHL7MU	PowerPlex® Fusion					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25	11,12	13,16		9,9.3	8,11
	16,17	NR				
AQEGWP	PowerPlex® ESI 17					
	12,12	17,24	11,14	15,16		
1		14,14	13,14	17,23		10,12
	14,20	13,14	29,29	15,15	X,X	
	21,25			22.2,27.2	9,9.3	
	16,17					
ATLXTZ	PowerPlex® ESI-17 Fast					
	12,12	17,24	11,14	15,16		
1		14,14	13,14	17,23		10,12
	14,20	13,14	29,29	15,15	X,X	
	21,25			22.2,27.2	9,9.3	
	16,17					

TABLE 1

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

Item 1 - STR Results

AUFLCV	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
B28NL7	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
B7QPY6	PowerPlex® Fusion 6C					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	11,12	13,16	22.2,27.2	9,9.3	8,11
	16,17	No Results	No Results	No Results		
B8XWB7	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
BAQMLQ	GlobalFiler™ Express					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17	NM			NM	
BJA4CC	PowerPlex® Fusion					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25	11,12	13,16		9,9.3	8,11
	16,17					
BJELAB	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17	--			--	

TABLE 1

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

Item 1 - STR Results

BR622Z	GlobalFiler™					
	12	17,24	11,14	15,16	12	
	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17	NR			NR	
BTGZVA	GlobalFiler™					
	12	17,24	11,14	15,16	12	
	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
BUAR6U	PowerPlex® Fusion					
	12	17,24	11,14	15,16	12	
	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25	11,12	13,16		9,9.3	8,11
	16,17	NR				
BZFKZQ	GlobalFiler™ Globalfiler Express					
	12	17,24	11,14	15,16	12	
	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17	NM			NM	
C8F8MJ	Investigator® 24plex					
	12,12	17,24	11,14	15,16	12,12	
	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
CBEHJJ	NGM SElect					
	12,12	17,24	11,14	15,16		
	11	14,14	13,14	17,23		10,12
	14,20	13,14	29,29	15,15	X,X	
	21,25			22.2,27.2	9,9.3	
	16,17					
CFBXG8	PowerPlex® Fusion 6C					
	12,12	17,24	11,14	15,16	12,12	
	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	11,12	13,16	22.2,27.2	9,9.3	8,11
	16,17	NR	NR	NR		

TABLE 1

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

Item 1 - STR Results

CK6YEF	PowerPlex® Fusion 6C, GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17	Not Detected			Not Detected	
CNJY9L	PowerPlex® Fusion (STRmix)					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	11,12	13,16		9,9.3	8,11
	16,17	ND				
CQ7DXV	PowerPlex® Fusion 6C (STRmix)					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25	11,12	13,16	22.2,27.2	9,9.3	8,11
	16,17					
CYMUP6	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
D3GBF4	GlobalFiler™ (STRmix)					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
D626C6	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
D8PQQD	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					

TABLE 1

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

Item 1 - STR Results

DC72ZB	GlobalFiler™ (STRmix)					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
DH89JK	GlobalFiler™ Express					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17	No Results			No Results	
DJ773T	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
DVUH6P	PowerPlex® Fusion 5C					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25	11,12	13,16		9,9.3	8,11
	16,17	NR				
E2J6N3	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
E9ZXME	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
EBP2KT	GlobalFiler™ Express					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					

TABLE 1

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

Item 1 - STR Results

EDX6HB	GlobalFiler™					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				8,11
EFFG38	PowerPlex® 5C					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25	11,12	13,16	--	9,9.3
		16,17	--	--	--	--
EHNNAB	GlobalFiler™					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				8,11
EUFD8R	PowerPlex® ES17 FAST					
		12,12	17,24	11,14	15,16	
1			14,14	13,14	17,23	10,12
		14,20	13,14	29,29	15,15	X,X
		21,25			22.2,27.2	9,9.3
		16,17				
EYC3PK	GlobalFiler™					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	12,12
		14,20	13,14	29,29	15,15	X,X
		21,25			22.2,27.2	9,9.3
		16,17				8,11
F3UCK4	PowerPlex® Fusion					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	12,12
		14,20	13,14	29,29	15,15	X,X
		21,25	11,12	13,16		9,9.3
		16,17				8,11
F832GH	PowerPlex® Fusion (STRmix)					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	12,12
		14,20	13,14	29,29	15,15	X,X
		21,25	11,12	13,16		9,9.3
		16,17	ND			8,11

TABLE 1

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

Item 1 - STR Results

FFD43H	PowerPlex® Fusion 5C (STRmix)					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	11,12	13,16		9,9.3	8,11
	16,17					
FL6D9A	GlobalFiler™ (STRmix)					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
G39A6E	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
G7RBD8	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
G8HMMD	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
G9TMND	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17	NR			NR	
GAMDUT	Identifiler® Direct					
		17,24		15,16	12	
1	11	14			12	10,12
	14,20	13,14	29		X,X	11,12
	21,25				9,9.3	8,11
	16,17					

TABLE 1

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

Item 1 - STR Results

GBF2CN	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
GMUYJD	GlobalFiler™ Express - RapidHIT					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17	NR			NR	
GMXEXY	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
GPV6UC	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
GQDAEV	PowerPlex® Fusion 6C					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	11,12	13,16	22.2,27.2	9,9.3	8,11
	16,17	ND	ND	ND		
GUQW4U	GlobalFiler™ Express					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
GV3TCK	GlobalFiler™ GlobalFiler Express					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17	NM			NM	

TABLE 1

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

Item 1 - STR Results

GWUWXZ	GlobalFiler™						
		12,12	17,24	11,14	15,16	12,12	
	1	11,11	14,14	13,14	17,23	12,12	10,12
		14,20	13,14	29,29	15,15	X,X	11,12
		21,25			22.2,27.2	9,9.3	8,11
	16,17						
HDXQ6Y	GlobalFiler™						
		12,12	17,24	11,14	15,16	12,12	
	1	11,11	14,14	13,14	17,23	12,12	10,12
		14,20	13,14	29,29	15,15	X,X	11,12
		21,25			22.2,27.2	9,9.3	8,11
	16,17						
HLWY6Y	GlobalFiler™						
		12	17,24	11,14	15,16	12	
	1	11	14	13,14	17,23	12	10,12
		14,20	13,14	29	15	X	11,12
		21,25			22.2,27.2	9,9.3	8,11
	16,17						
HWH4CX	GlobalFiler™ Direct						
		12	17,24	11,14	15,16	12	
	1	11	14	13,14	17,23	12	10,12
		14,20	13,14	29	15	X	11,12
		21,25			22.2,27.2	9,9.3	8,11
	16,17						
HX8L2C	GlobalFiler™						
		12	17,24	11,14	15,16	12	
	1	11	14	13,14	17,23	12	10,12
		14,20	13,14	29	15	X	11,12
		21,25			22.2,27.2	9,9.3	8,11
	16,17						
J3EER2	Identifiler®						
			17,24		15,16	12,12	
	1	11,11	14,14			12,12	10,12
		14,20	13,14	29,29		X,X	11,12
		21,25				9,9.3	8,11
	16,17						
JAWYFY	GlobalFiler™						
		12	17,24	11,14	15,16	12	
	1	11	14	13,14	17,23	12	10,12
		14,20	13,14	29	15	X	11,12
		21,25			22.2,27.2	9,9.3	8,11
	16,17						

TABLE 1

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

Item 1 - STR Results

JBDW9Y	GlobalFiler™ (STRmix)					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
JD2LEX	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
JDGTDZ	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
JJ4MJX	GlobalFiler™ Direct					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
JTEP6Y	GlobalFiler™ Direct					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
JUB87Z	GlobalFiler™ Direct					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
K3CYZM	GlobalFiler™ (Genemapper ID-x)					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					

TABLE 1

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

Item 1 - STR Results

KADDN9	GlobalFiler™						
		12,12	17,24	11,14	15,16	12,12	
	1	11,11	14,14	13,14	17,23	12,12	10,12
		14,20	13,14	29,29	15,15	X,X	11,12
		21,25			22.2,27.2	9,9.3	8,11
		16,17	NR			NR	
KEMMWQ	GlobalFiler™						
		12,12	17,24	11,14	15,16	12,12	
	1	11,11	14,14	13,14	17,23	12,12	10,12
		14,20	13,14	29,29	15,15	X,X	11,12
		21,25			22.2,27.2	9,9.3	8,11
		16,17					
KKEP6W	PowerPlex® Fusion 6C						
		12,12	17,24	11,14	15,16	12,12	
	1	11,11	14,14	13,14	{17,23}	12,12	10,12
		14,20	13,14	29,29	15,15	X,X	11,12
		21,25	11,12	13,16	22.2,27.2	9,9.3	8,11
		16,17	No Results	No Results	No Results		
KNCBRT	Identifiler® Plus						
			17,24		15,16	12,12	
	1	11,11	14,14			12,12	10,12
		14,20	13,14	29,29		X,X	11,12
		21,25				9,9.3	8,11
		16,17					
L2GZ2E	GlobalFiler™ Express						
		12	17,24	11,14	15,16	12	
	1	11	14	13,14	17,23	12	10,12
		14,20	13,14	29	15	X	11,12
		21,25			22.2,27.2	9,9.3	8,11
		16,17	NR			NR	
LFCGQC	GlobalFiler™						
		12	17,24	11,14	15,16	12	
	1	11	14	13,14	17,23	12	10,12
		14,20	13,14	29	15	X	11,12
		21,25			22.2,27.2	9,9.3	8,11
		16,17					
LMX49W	GlobalFiler™ Direct						
		12	17,24	11,14	15,16	12	
	1	11	14	13,14	17,23	12	10,12
		14,20	13,14	29	15	X	11,12
		21,25			22.2,27.2	9,9.3	8,11
		16,17					

TABLE 1

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

Item 1 - STR Results

LNVFPX	PowerPlex® Fusion 6C						
		12,12	17,24	11,14	15,16	12,12	
	1	11,11	14,14	13,14	17,23	12,12	10,12
		14,20	13,14	29,29	15,15	X,X	11,12
		21,25	11,12	13,16	22,2,27.2	9,9.3	8,11
		16,17	NR	NR	NR		
M29FQG	PowerPlex® Fusion						
		12	17,24	11,14	15,16	12	
	1	11	14	13,14	17,23	12	10,12
		14,20	13,14	29	15	X	11,12
		21,25	11,12	13,16		9,9.3	8,11
		16,17	NR				
M8HKPV	GlobalFiler™ Direct						
		12	17,24	11,14	15,16	12	
	1	11	14	13,14	17,23	12	10,12
		14,20	13,14	29	15	X	11,12
		21,25			22,2,27.2	9,9.3	8,11
		16,17					
MH3VYM	GlobalFiler™						
		12,12	17,24	11,14	15,16	12,12	
	1	11,11	14,14	13,14	17,23	12,12	10,12
		14,20	13,14	29,29	15,15	X,X	11,12
		21,25			22,2,27.2	9,9.3	8,11
		16,17					
MNRBRZ	GlobalFiler™						
		12	17,24	11,14	15,16	12	
	1	11	14	13,14	17,23	12	10,12
		14,20	13,14	29	15	X	11,12
		21,25			22,2,27.2	9,9.3	8,11
		16,17					
MQC88D	GlobalFiler™ Express (STRmix)						
		12	17,24	11,14	15,16	12	
	1	11	14	13,14	17,23	12	10,12
		14,20	13,14	29	15	X	11,12
		21,25			22,2,27.2	9,9.3	8,11
		16,17	No results			No results	
MTGYX7	GlobalFiler™						
		12	17,24	11,14	15,16	12	
	1	11	14	13,14	17,23	12	10,12
		14,20	13,14	29	15	X,X	11,12
		21,25			22,2,27.2	9,9.3	8,11
		16,17					

TABLE 1

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

Item 1 - STR Results

MXTWUT	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
N4CDTW	GlobalFiler™ Express					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
N8X6VQ	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	N/A
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	N/A	N/A	22.2,27.2	9,9.3	8,11
	16,17	N/A	N/A	N/A	N/A	
NDMHXZ	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
NFQF6L	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
NGGTJX	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
NJQPBH	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					

TABLE 1

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

Item 1 - STR Results

NYK237	GlobalFiler™ (STRmix)					
	12	17,24	11,14	15,16	12	
	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
NZUDF2	GlobalFiler™					
	12	17,24	11,14	15,16	12	
	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
P4URGX	GlobalFiler™					
	12	17,24	11,14	15,16	12	
	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
P933VL	Investigator® 24plex GO!					
	12,12	17,24	11,14	15,16	12,12	N/A
	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	N/A	N/A	22.2,27.2	9,9.3	8,11
	16,17	N/A	N/A	N/A	N/A	
PFZYCW						
	12,12	17,24	11,14	15,16	12,12	
	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17	NR			NR	
PPXH4R	GlobalFiler™ Direct					
	12	17,24	11,14	15,16	12	
	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
PRJBU2	GlobalFiler™					
	12	17,24	11,14	15,16	12	
	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					

TABLE 1

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

Item 1 - STR Results

PTYJ8V	GlobalFiler™					
	12	17,24	11,14	15,16	12	
	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
Q2GKYP	GlobalFiler™					
	12	17,24	11,14	15,16	12	
	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17	No Result		No Result		
QB4MXC	ESI 17 FAST					
	12,12	17,24	11,14	15,16		
	11	14,14	13,14	17,23		10,12
	14,20	13,14	29,29	15,15	X,X	
	21,25			22.2,27.2	9,9.3	
	16,17					
QB9ZNT	PowerPlex® Fusion 6C					
	12,12	17,24	11,14	15,16	12,12	
	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	11,12	13,16	22.2,27.2	9,9.3	8,11
	16,17	NR	NR	NR		
QFJ3N4	GlobalFiler™					
	12	17,24	11,14	15,16	12	
	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
QFWP2C	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17	F		F		
QJW3KU	GlobalFiler™					
	12	17,24	11,14	15,16	12	
	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					

TABLE 1

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

Item 1 - STR Results

QKYLTR	PowerPlex® Fusion 6C					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	11,12	13,16	22,2,27.2	9,9.3	8,11
	16,17	NR	NR	NR		
QREB9R	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22,2,27.2	9,9.3	8,11
	16,17					
QTMJE6	PowerPlex® PowerPlex® Fusion					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	11,12	13,16		9,9.3	8,11
	16,17	ND				
QU2QX2	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22,2,27.2	9,9.3	8,11
	16,17					
QUY77R	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22,2,27.2	9,9.3	8,11
	16,17					
QVCRJZ	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22,2,27.2	9,9.3	8,11
	16,17					
QYVRXU	PowerPlex® Fusion 5C					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25	11,12	13,16		9,9.3	8,11
	16,17					

TABLE 1

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

Item 1 - STR Results

R2W63Y	PowerPlex® Fusion 6C, GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22,2,27.2	9,9.3	8,11
	16,17	Not Detected			Not Detected	
R7CQWR	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22,2,27.2	9,9.3	8,11
	16,17					
R9YDPE	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22,2,27.2	9,9.3	8,11
	16,17					
RTGQX9	Investigator® 24plex					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22,2,27.2	9,9.3	8,11
	16,17	N/A				
RZ7W3W	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22,2,27.2	9,9.3	8,11
	16,17					
RZNVA3	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22,2,27.2	9,9.3	8,11
	16,17	NR			NR	
T2A26J	Identifiler® Plus					
		17,24		15,16	12	
1	11	14			12	10,12
	14,20	13,14	29		X	11,12
	21,25				9,9.3	8,11
	16,17					

TABLE 1

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

Item 1 - STR Results

TJ8JT	GlobalFiler™					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	10,12
		14,20	13,14	29,29	15,15	X,X
		21,25			22.2,27.2	9,9.3
		16,17	--			--
TJXLC	PowerPlex® Fusion 5C					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	10,12
		14,20	13,14	29	15	X
		21,25	11,12	13,16		9,9.3
		16,17	NR			8,11
TR2QBY	GlobalFiler™					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	10,12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				8,11
TUF67M	GlobalFiler™					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	10,12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				8,11
U3GXPD	GlobalFiler™ (TrueAllele)					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	10,12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				8,11
UA78MQ	GlobalFiler™					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	10,12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				8,11
UF8UQC	GlobalFiler™ (Genemapper ID-x)					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	10,12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				8,11

TABLE 1

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

Item 1 - STR Results

UK3NMR	GlobalFiler™					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	10,12
		14,20	13,14	29,29	15,15	X,X
		21,25			22.2,27.2	9,9.3
		16,17	---			---
V2799M	PowerPlex® Fusion 6C					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	10,12
		14,20	13,14	29,29	15,15	X,X
		21,25	11,12	13,16	22.2,27.2	9,9.3
		16,17	NR	NR	NR	
V47QZM	GlobalFiler™					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	10,12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				
V8QKWN	PowerPlex® Fusion SYSTEM (M-FISys 11.09)					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	10,12
		14,20	13,14	29,29	15,15	X,X
		21,25	11,12	13,16		9,9.3
		16,17				
V8T7NX	GlobalFiler™					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	10,12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				
VA37XB	GlobalFiler™					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	10,12
		14,20	13,14	29,29	15,15	X,X
		21,25			22.2,27.2	9,9.3
		16,17	NR			NR
VDJF32	PowerPlex® Fusion					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	10,12
		14,20	13,14	29,29	15,15	X,X
		21,25	11,12	13,16	NT	9,9.3
		16,17	ND	NT	NT	NT

TABLE 1

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

VPEKGU	GlobalFiler™					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
VQL3BJ	GlobalFiler™					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
VX8XCM	PowerPlex® Fusion 6C					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	11,12	13,16	22.2,27.2	9,9.3	8,11
	16,17	NR	NR	NR		
W2J68Z	PowerPlex® 5C (STRmix)					
	12,12	17,24	11,14	15,16	12,12	
1	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	11,12	13,16		9,9.3	8,11
	16,17	ND				
W2NHWG	PowerPlex® PP21					
	12,12	17,24		15,16	12,12	11,13
1	11,11	14,14		17,23	12,12	10,12
	14,20	13,14	29,29		X,X	11,12
	21,25	11,12	13,16		9,9.3	8,11
	16,17					
W4ADDU	GlobalFiler™ (STRmix)					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
WGFHNG	PowerPlex® ESX 16 Fast					
	12	17,24	11,14	15,16		
1		14	13,14	17,23		10,12
	14,20	13,14	29	15	X	
	21,25				9,9.3	
	16,17					

TABLE 1

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

Item 1 - STR Results

WMYMEW	PowerPlex® Fusion 6C					
1	12,12	17,24	11,14	15,16	12,12	
	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	11,12	13,16	22.2,27.2	9,9.3	8,11
	16,17					
WT3TRD	Investigator® 24plex GO!					
1	12,12	17,24	11,14	15,16	12,12	n/a
	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	n/a	n/a	22.2,27.2	9,9.3	8,11
	16,17	N/A	n/a	n/a	n/a	
WZ49EZ	PowerPlex® Fusion 5C					
1	12	17,24	11,14	15,16	12	
	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25	11,12	13,16		9,9.3	8,11
	16,17	NR				
XDNP4X	GlobalFiler™					
1	12	17,24	11,14	15,16	12	
	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
XH4F9T	GlobalFiler™ Express					
1	12	17,24	11,14	15,16	12	
	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
XXZMDL	GlobalFiler™ Direct					
1	12	17,24	11,14	15,16	12	
	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					
Y767YN	GlobalFiler™					
1	12,12	17,24	11,14	15,16	12,12	--
	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	--	--	22.2,27.2	9,9.3	8,11
	16,17	--	--	--	--	

TABLE 1

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

Item 1 - STR Results

Y8JG3M	GlobalFiler™					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				8,11
YGTN6H	GlobalFiler™					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				8,11
YJNNRT	GlobalFiler™					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14	13,14	17,23	12,12
		14,20	13,14	29	15,15	X,X
		21,25			22.2,27.2	9,9.3
		16,17				8,11
YKLYR2	GlobalFiler™ Express					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17	No results			No results
YQ9RYV	GlobalFiler™					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X,X
		21,25			22.2,27.2	9,9.3
		16,17				8,11
YQHEPP	GlobalFiler™					
		12	17,24	11,14	15,16	12
1		11	14	13,14	17,23	12
		14,20	13,14	29	15	X
		21,25			22.2,27.2	9,9.3
		16,17				8,11
YTZP9M	GlobalFiler™					
		12,12	17,24	11,14	15,16	12,12
1		11,11	14,14	13,14	17,23	12,12
		14,20	13,14	29,29	15,15	X,X
		21,25			22.2,27.2	9,9.3
		16,17				8,11

TABLE 1

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

Item 1 - STR Results

YU9Y2J	GlobalFiler™						
		12,12	17,24	11,14	15,16	12,12	
	1	11,11	14,14	13,14	17,23	12,12	10,12
		14,20	13,14	29,29	15,15	X,X	11,12
		21,25			22.2,27.2	9,9.3	8,11
	16,17						
YZZ6YU	GlobalFiler™ (STRmix)						
		12,12	17,24	11,14	15,16	12,12	
	1	11,11	14,14	13,14	17,23	12,12	10,12
		14,20	13,14	29,29	15,15	X,X	11,12
		21,25			22.2,27.2	9,9.3	8,11
	16,17						
Z6UEUE	GlobalFiler™						
		12,12	17,24	11,14	15,16	12,12	NA
	1	11,11	14,14	13,14	17,23	12,12	10,12
		14,20	13,14	29,29	15,15	X,X	11,12
		21,25	NA	NA	22.2,27.2	9,9.3	8,11
	16,17	NSD	NA	NA	NSD		
ZG7NEX	PowerPlex® Fusion						
		12	17,24	11,14	15,16	12	
	1	11	14	13,14	17,23	12	10,12
		14,20	13,14	29	15	X	11,12
		21,25	11,12	13,16		9,9.3	8,11
	16,17	N/R					
ZHD9XR	GlobalFiler™						
		12	17,24	11,14	15,16	12	
	1	11	14	13,14	17,23	12	10,12
		14,20	13,14	29	15	X	11,12
		21,25			22.2,27.2	9,9.3	8,11
	16,17						
ZTWHLK	GlobalFiler™						
		12	17,24	11,14	15,16	12	
	1	11	14	13,14	17,23	12	10,12
		14,20	13,14	29	15	X	11,12
		21,25			22.2,27.2	9,9.3	8,11
	16,17						
ZWWW8P	GlobalFiler™						
		12	17,24	11,14	15,16	12	
	1	11	14	13,14	17,23	12	10,12
		14,20	13,14	29	15	X	11,12
		21,25			22.2,27.2	9,9.3	8,11
	16,17						

TABLE 1

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

Item 1 - STR Results

ZYKDDG	GlobalFiler™ Direct					
	12	17,24	11,14	15,16	12	
1	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17					

TABLE 1

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

Item 2 - STR Results

29MXAH	PowerPlex® Fusion 6C					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	19,28.2	7,7	8,8
	11,18	10	19	17		
2JN9W8	PowerPlex® Fusion 6C (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	19,28.2	7	8
	11,18	10	19	17		
2MYMXH	PowerPlex® Fusion 6C					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	19,28.2	7,7	8,8
	11,18	10	19	17		
2UM4RG	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
2VFU33	PowerPlex® 23, GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	
2Z9YTK	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	
3BN68Z	PowerPlex®					
	13,15	19,24	12,13	12,18		
2		14	14,16	17,18		9
	15	12,14	30,35	16,17	X,Y	
	22,23			19,28.2	7	
	11,18					

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

3C3PZB	PowerPlex® Fusion 6C					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	19,28.2	7,7	8,8
	11,18	10	19	17		
3GVWA7	Identifiler® Direct					
		19,24		12,18	8,11	
2	9,10	14			11	9
	15	12,14	30,35		X,Y	8,10
	22,23				7	8
	11,18					
3H8LJB	Identifiler® Plus					
		19,24		12,18	8,11	
2	9,10	14,14			11,11	9,9
	15,15	12,14	30,35		X,Y	8,10
	22,23				7,7	8,8
	11,18					
3NUKPP	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
3P7XV8	Identifiler® Direct					
		19,24		12,18	8,11	
2	9,10	14			11	9
	15	12,14	30,35		X,Y	8,10
	22,23				7	8
	11,18					
3WPCHD	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
4478Y8	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	N/A
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	N/A	N/A	19,28.2	7,7	8,8
	11,18	10	N/A	N/A	2	

TABLE 1

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

Item 2 - STR Results

44P3HU	PowerPlex® Fusion					
		13,15	19,24	12,13	12,18	8,11
		not tested				
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14	not tested	7,7
						8,8
		11,18	10	not tested	not tested	not tested
49FA3N	PowerPlex® Fusion 6C, GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
		not tested				
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
						8,8
		11,18	10			2
49VWB6	PowerPlex® Fusion 6C (STRmix)					
		13,15	19,24	12,13	12,18	8,11
		not tested				
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14	19,28.2	7
						8
		11,18	10	19	17	
4H7XW6						
		13,15	19,24	12,13	12,18	8,11
		not tested				
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
						8,8
		11,18	10			2
4HKK8R	PowerPlex® Fusion 5C					
		13,15	19,24	12,13	12,18	8,11
		not tested				Not tested
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14	Not tested	7,7
						8,8
		11,18	10	Not tested	Not tested	Not tested
4HNZME	GlobalFiler™ Direct					
		13,15	19,24	12,13	12,18	8,11
		not tested				
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
						8
		11,18	10			2
4KPCZ6	Identifiler® Direct					
			19,24		12,18	8,11
		not tested				
2		9,10	14			11
		15	12,14	30,35		X,Y
		22,23				7
						8
		11,18				

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

4LJZH2	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
	2	9,10	14	14,16	17,18	11
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
4LNBHD	GlobalFiler™ Direct					
	13,15	19,24	12,13	12,18	8,11	
	2	9,10	14	14,16	17,18	11
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
4PPAXD	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
	2	9,10	14	14,16	17,18	11
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
4QXDJN	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
	2	9,10	14	14,16	17,18	11
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
4RPMEB	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	N/A
	2	9,10	14,14	14,16	17,18	11,11
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	N/A	N/A	19,28.2	7,7	8,8
	11,18	10	N/A	N/A	2	
6AN7LX	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
	2	9,10	14,14	14,16	17,18	11,11
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	
6JVLUQ	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
	2	9,10	14,14	14,16	17,18	11,11
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	

TABLE 1

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

Item 2 - STR Results

6NKEM7	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18	10			2
6NPHGW	Investigator® 24plex					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18	10			2
6ZFCPJ	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2
78VFBC	GlobalFiler™ (STRmix)					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2
7BUQ8C	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2
7DMHGX	PowerPlex® 6C					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14	19,28.2	7
		11,18	10	19	17	
7J9QMA	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2

TABLE 1

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

Item 2 - STR Results

7JM9GE	PowerPlex® Fusion 6C (STRmix 2.6.3)					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	19,28.2	7	8
	11,18	10	19	17		
7LUJDH	GlobalFiler™ (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
7RKUMG	GlobalFiler™ (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
7Y49GD	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
83ZU8G	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
86LPNU	GlobalFiler™ Express					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
8HEA4K	GlobalFiler™ IQC					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10	19	17	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

8MKZ8Q	GlobalFiler™ Express					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
8WV2TR	GlobalFiler™ Express					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
8YFAX7	Identifiler® Plus					
		19,24		12,18	8,11	
2	9,10	14,14			11,11	9,9
	15,15	12,14	30,35		X,Y	8,10
	22,23				7,7	8,8
	11,18					
92ZMUU	ESI17Fast (DNA Insight)					
	13,15	19,24	12,13	12,18	Not tested	Not tested
2	Not tested	14,14	14,16	17,18	Not tested	9,9
	15,15	12,14	30,35	16,17	X,Y	Not tested
	22,23	Not tested	Not tested	19,28.2	7,7	Not tested
	11,18	Not tested	Not tested	Not tested	Not tested	
9B9WLT	GlobalFiler™ Express					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
9DG369	GlobalFiler™ Direct					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
9F4QG9	GlobalFiler™ (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	

TABLE 1

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

Item 2 - STR Results

9NBN3Q	GlobalFiler™ Express					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			8
						2
9NW2PJ	GlobalFiler™ (STRmix)					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18	10			8,8
						2
9YPPFC	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18	10	19	17	8,8
						2
9Z9GGA	PowerPlex® PFusion 6C					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14	19,28.2	7,7
		11,18	10	19	17	8,8
						2
A6HTEA	GlobalFiler™ Direct					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			8
						2
A8LWHH	PowerPlex® Fusion 6C					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14	19,28.2	7,7
		11,18	10	19	17	8,8
						2
A9VKGW	PowerPlex® Fusion 5C					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14		7
		11,18	10			8
						2

TABLE 1

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

Item 2 - STR Results

AELY4H	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18	10			2
AFW4EL	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2
AFYQXK	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2
AHL7MU	PowerPlex® Fusion					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14		7
		11,18	10			8
AQEGWP	PowerPlex® ESI 17					
		13,15	19,24	12,13	12,18	
2			14,14	14,16	17,18	9,9
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18				
ATLXTZ	PowerPlex® ESI-17 Fast					
		13,15	19,24	12,13	12,18	
2			14,14	14,16	17,18	9,9
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18				
AUFLCV	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2

TABLE 1

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

Item 2 - STR Results

B28NL7	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18	10			2
B7QPY6	PowerPlex® Fusion 6C					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14	19,28.2	7,7
		11,18	10	19	17	
B8XWB7	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2
BAQMLQ	GlobalFiler™ Express					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2
BJA4CC	PowerPlex® Fusion					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14		7
		11,18	10			8
BJELAB	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18	10			2
BR622Z	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2

TABLE 1

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

Item 2 - STR Results

BTGZVA	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
BUAR6U	PowerPlex® Fusion						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14		7	8
		11,18	10				
BZFKZQ	GlobalFiler™ Globalfiler Express						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
C8F8MJ	Investigator® 24plex						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
		11,18	10				
CBEHJJ	NGM SElect						
		13,15	19,24	12,13	12,18		
	2		14,14	14,16	17,18		9,9
		15,15	12,14	30,35	16,17	X,Y	
		22,23			19,28.2	7,7	
		11,18					
CFBXG8	PowerPlex® Fusion 6C						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14	19,28.2	7,7	8,8
		11,18	10	19	17		
CK6YEF	PowerPlex® Fusion 6C, GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
		11,18	10			2	

TABLE 1

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

Item 2 - STR Results

CNJY9L	PowerPlex® Fusion (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14		7,7	8,8
	11,18	10					
CQ7DXV	PowerPlex® Fusion 6C (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14	19,28.2	7	8
	11,18	10	19	17			
CYMUP6	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		
D3GBF4	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		
D626C6	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
	11,18	10			2		
D8PQQD	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
	11,18	10			2		
DC72ZB	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		

TABLE 1

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

Item 2 - STR Results

DH89JK	GlobalFiler™ Express					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
DJ773T	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	
DVUH6P	PowerPlex® Fusion 5C					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14		7	8
	11,18	10				
E2J6N3	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
E9ZXME	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
EBP2KT	GlobalFiler™ Express					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	
EDX6HB	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	

TABLE 1

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

Item 2 - STR Results

EFG38	PowerPlex® 5C						
		13,15	19,24	12,13	12,18	8,11	--
	2	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14	--	7	8
		11,18	10	--	--	--	
EHNNAB	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
EUFD8R	PowerPlex® ES17 FAST						
		13,15	19,24	12,13	12,18		
	2		14,14	14,16	17,18		9,9
		15,15	12,14	30,35	16,17	X,Y	
		22,23			19,28.2	7,7	
		11,18					
EYC3PK	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
		11,18	10			2	
F3UCK4	PowerPlex® Fusion						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14		7,7	8,8
		11,18	10				
F832GH	PowerPlex® Fusion (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14		7,7	8,8
		11,18	10				
FFD43H	PowerPlex® Fusion 5C (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14		7,7	8,8
		11,18	10				

TABLE 1

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

Item 2 - STR Results

FL6D9A	GlobalFiler™ (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
G39A6E	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
G7RBD8	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
G8HMMD	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
G9TMND	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	
GAMDUT	Identifiler® Direct					
		19,24		12,18	8,11	
2	9,10	14			11	9
	15	12,14	30,35		X,Y	8,10
	22,23				7	8
	11,18					
GBF2CN	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	

TABLE 1

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

Item 2 - STR Results

GMUYJD	GlobalFiler™ Express - RapidHIT					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	
GMXEXY	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	
GPV6UC	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	
GQDAEV	PowerPlex® Fusion 6C					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	19,28.2	7,7	8,8
	11,18	10	19	17		
GUQW4U	GlobalFiler™ Express					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	
GV3TCK	GlobalFiler™ GlobalFiler Express					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
GWUWXZ	PowerPlex®, GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	

TABLE 1

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

Item 2 - STR Results

HDXQ6Y	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
		11,18	10			2	
HLWY6Y	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
HWH4CX	GlobalFiler™ Direct						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
HX8L2C	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
J3EER2	Identifiler®						
			19,24		12,18	8,11	
	2	9,10	14,14			11,11	9,9
		15,15	12,14	30,35		X,Y	8,10
		22,23				7,7	8,8
		11,18					
JAWYFY	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
JBDW9Y	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	

TABLE 1

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

Item 2 - STR Results

JD2LEX	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	2	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
JDGTDZ	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	2	9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
					8,8	
		11,18	10		2	
JJ4MJX	GlobalFiler™ Direct					
		13,15	19,24	12,13	12,18	8,11
	2	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
JTEP6Y	GlobalFiler™ Direct					
		13,15	19,24	12,13	12,18	8,11
	2	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
JUB87Z	GlobalFiler™ Direct					
		13,15	19,24	12,13	12,18	8,11
	2	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
K3CYZM	GlobalFiler™ (Genemapper ID-x)					
		13,15	19,24	12,13	12,18	8,11
	2	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
KADDN9	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	2	9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
					8,8	
		11,18	10		2	

TABLE 1

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

Item 2 - STR Results

KEMMWQ	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	
KKEP6W	PowerPlex® Fusion 6C					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	19,28.2	7,7	8,8
	11,18	10	19	17		
KNCBRT	Identifiler® Plus					
		19,24		12,18	8,11	
2	9,10	14,14			11,11	9,9
	15,15	12,14	30,35		X,Y	8,10
	22,23				7,7	8,8
	11,18					
L2GZ2E	GlobalFiler™ Express					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
LFCGQC	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
LMX49W	GlobalFiler™ Direct					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
LNVPFX	PowerPlex® Fusion 6C					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	19,28.2	7,7	8,8
	11,18	10	19	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

M29FQG	PowerPlex® Fusion					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14		7	8
	11,18	10				
M8HKPV	GlobalFiler™ Direct					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
MH3VYM	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	
MNRBRZ	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
MQC88D	GlobalFiler™ Express (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
MTGYX7	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
MXTWUT	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	

TABLE 1

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

Item 2 - STR Results

N4CDTW	GlobalFiler™ Express						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
	11,18	10			2		
N8X6VQ	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	N/A
	2	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	N/A	N/A	19,28.2	7,7	8,8
	11,18	10	N/A	N/A	2		
NDMHXZ	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		
NFQF6L	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
	11,18	10			2		
NGGTJX	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
	11,18	10			2		
NJQPBH	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
	11,18	10			2		
NYK237	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	2	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		

TABLE 1

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

Item 2 - STR Results

NZUDF2	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10		2		
P4URQX	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10		2		
P933VL	Investigator® 24plex QS					
	13,15	19,24	12,13	12,18	8,11	N/A
	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	N/A	N/A	19,28.2	7,7	8,8
	11,18	10	N/A	N/A	N/A	
PFZYCW	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10		2		
PPXH4R	GlobalFiler™ Direct					
	13,15	19,24	12,13	12,18	8,11	
	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10		2		
PRJBU2	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10		2		
PTYJ8V	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10		2		

TABLE 1

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

Item 2 - STR Results

Q2GKYP	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			8
						2
QB4MXC	ESI 17 FAST					
		13,15	19,24	12,13	12,18	
2			14,14	14,16	17,18	9,9
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18				
QB9ZNT	PowerPlex® Fusion 6C					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14	19,28.2	7,7
		11,18	10	19	17	8,8
QFJ3N4	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			8
						2
QFWP2C	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18	10			8,8
						2
QJW3KU	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			8
						2
QKYLTR	PowerPlex® Fusion 6C					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14	19,28.2	7,7
		11,18	10	19	17	8,8

TABLE 1

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

QREB9R	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
						8
		11,18	10			2
QTMJE6	PowerPlex® Fusion					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14		7,7
						8,8
		11,18	10			
QU2QX2	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
						8
		11,18	10			2
QUY77R	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
						8,8
		11,18	10			2
QVCRJZ	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
						8
		11,18	10			2
QYVRXU	PowerPlex® Fusion 5C					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14		7
						8
		11,18	10			
R2W63Y	PowerPlex® Fusion 6C, GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,[34],35	16,17	X,Y
		22,23			19,28.2	7,7
						8,8
		11,18	10			2

TABLE 1

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

Item 2 - STR Results

R7CQWR	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2
R9YDPE	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18	10			2
RTGQX9	Investigator® 24plex					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18	10			2
RZ7W3W	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2
RZNVA3	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18	10			2
T2A26J	Identifiler® Plus					
			19,24		12,18	8,11
2		9,10	14			11
		15	12,14	30,35		X,Y
		22,23				7
		11,18				8
TJ8JTT	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18	10			2

TABLE 1

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

Item 2 - STR Results

TJTXLC	PowerPlex® Fusion 5C					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14		7	8
	11,18	10				
TR2QBY	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
TUF67M	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
U3GXPD	GlobalFiler™ (TrueAllele)					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
UA78MQ	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
UF8UQC	GlobalFiler™ (Genemapper ID-x)					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
UK3NMR	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	

TABLE 1

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

Item 2 - STR Results

V2799M	PowerPlex® Fusion 6C					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	19,28.2	7,7	8,8
	11,18	10	19	17		
V47QZM	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
V8QKWN	PowerPlex® Fusion SYSTEM (M-FISys 11.09)					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,10
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14		7,7	8,8
	11,18	10				
V8T7NX	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
VA37XB	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	
VDJF32	PowerPlex® Fusion					
	13,15	19,24	12,13	12,18	8,11	NT
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	NT	7,7	8,8
	11,18	10	NT	NT	NT	
VPEKGU	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	

TABLE 1

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

Item 2 - STR Results

VQL3BJ	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	
VX8XCM	PowerPlex® Fusion 6C					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	19,28.2	7,7	8,8
	11,18	10	19	17		
W2J68Z	PowerPlex® 5C (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14		7,7	8,8
	11,18	10				
W2NHWG	PowerPlex® PP21					
	13,15	19,24		12,18	8,11	12,16
2	9,10	14,14		17,18	11,11	9,9
	15,15	12,14	30,35		X,Y	8,10
	22,23	8,10	13,14		7,7	8,8
	11,18					
W4ADDU	GlobalFiler™ (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
WGFHNG	PowerPlex® ESX 16 Fast					
	13,15	19,24	12,13	12,18		
2		14	14,16	17,18		9
	15	12,14	30,35	16,17	X,Y	
	22,23				7	
	11,18					
WMYMEW	PowerPlex® Fusion 6C					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	19,28.2	7,7	8,8
	11,18	10	19	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

WT3TRD	Investigator® 24plex QS					
	13,15	19,24	12,13	12,18	8,11	n/a
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	n/a	n/a	19,28.2	7,7	8,8
	11,18	10	n/a	n/a	n/a	
WZ49EZ	PowerPlex® Fusion 5C					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14		7	8
	11,18	10				
XDNP4X	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
XH4F9T	GlobalFiler™ Express					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
XXZMDL	GlobalFiler™ Direct					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
Y767YN	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	--
2	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	--	--	19,28.2	7,7	8,8
	11,18	10	--	--	2	
Y8JG3M	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
2	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	

TABLE 1

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

Item 2 - STR Results

YGTN6H	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			8
						2
YJNNRT	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18	10			8,8
						2
YKLYR2	GlobalFiler™ Express					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			8
						2
YQ9RYV	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			8
						2
YQHEPP	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			8
						2
YTZP9M	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18	10			8,8
						2
YU9Y2J	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
2		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18	10			8,8
						2

TABLE 1

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

Item 2 - STR Results

YZZ6YU	GlobalFiler™ (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10		2		
Z6UEUE	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	NA
	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	NA	NA	19,28.2	7,7	8,8
	11,18	10	NA	NA	2	
ZG7NEX	PowerPlex® Fusion					
	13,15	19,24	12,13	12,18	8,11	
	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14		7	8
	11,18	10				
ZHD9XR	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10		2		
ZTWHLK	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10		2		
ZWWW8P	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10		2		
ZYKDDG	GlobalFiler™ Direct					
	13,15	19,24	12,13	12,18	8,11	
	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10		2		

TABLE 1

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

Item 3 - STR Results

7DMHGX	PowerPlex® 6C					
	12,13,15	[17],19,24	[11],12,13,[14]	12,[15],[16],18	8,11,12	
3	9,10,11	14	[13],14,16	17,18,[23]	11,[12]	9,[10],[12]
	[14],15,[20]	12,[13],14	29,30,35	[15],16,17	X,Y	8,10,[11],[12]
	[21],22,23,[25]	8,10,[11],[12]	13,14,[16]	19,[22.2],[27.2],28.2	7,[9],[9.3]	8,[11]
	11,[16],[17],18	10	19	17		
A8LWHH	PowerPlex® Fusion 6C (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16	19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10	19	17		
B28NL7	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
D626C6	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
GWUWXZ	PowerPlex®, GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
HDXQ6Y	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
JDGTDZ	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	

TABLE 1

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

Item 3 - STR Results

N4CDTW	GlobalFiler™ (STRmix)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3	9,10,11	14,14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
QFWP2C	GlobalFiler™					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
QUY77R	GlobalFiler™					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
R9YDPE	GlobalFiler™ (STRmix)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
T2A26J	Identifiler® Plus					
			17,19,24		12,15,16,18	8,11,12
	3	9,10,11	14			11,12
		14,15,20	12,13,14	29,30,35		X,Y
		21,22,23,25				7,9,9.3
	11,16,17,18				8,11	
YTZP9M	GlobalFiler™					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3	9,10,11	14,14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
YU9Y2J	GlobalFiler™					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	

TABLE 1

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

Item 3e - STR Results

29MXAH	PowerPlex® Fusion 6C (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16	19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10	19	17		
29PKTG	GlobalFiler™					
	12,(13),(15)	17,(19),24	11,(12),(13),14	(12),15,16,(18)	(8),(11),12	13
3e	(9),(10),11	14	13,14,(16)	17,(18),23	(11),12	(9),10,12
	14,(15),20	(12),13,14	29,(30),(35)	15,(16),(17)	X,(Y)	(8),(10),11,12
	21,(22),(23),25			(19),22.2,27.2,(28.2)	7,9,9.3	8,11
	(11),16,17,(18)	10			2	
2J4HTE	PowerPlex® Fusion 6C					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16	19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10	19	17		
2JN9W8	PowerPlex® Fusion 6C (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16	19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10	19	17		
2MYMXH	PowerPlex® Fusion 6C					
	12,12	17,24	11,14	15,16	12,12	
3e	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	11,12	13,16	22.2,27.2	9,9.3	8,11
	16,17	-	-	-		
2UM4RG	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
2VFU33	PowerPlex® 23, GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14,	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	

TABLE 1

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

Item 3e - STR Results

2Z9YTK	GlobalFiler™						
		12,[13],[15]	17,19,24	11,[12],[13],14	[12],15,16,[18]	8,11,12	
	3e	[9],[10],11	14,14	13,14,[16]	17,[18],23	11,12	9,10,12
		14,15,20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]	[8],[10],11,12
		21,[22],[23],25			[19],22.2,27.2,[28.2]	7,9,9.3	8,11
	[11],16,17,[18]	[10]			[2]		
3BN68Z	PowerPlex®						
		12,13,[15]	17,19,24	11,12,13,14	[12],15,16,18		
	3e		14	13,14,16	17,[18],23		9,10,12
		14,15,19,20	12,13,14	29,30,[34],35	15	X,Y	
		21,22,23,25			[18],19,22.2,27.2,28.2	7,9,9.3	
	11,16,17,18			2			
3C3PZB	PowerPlex® Fusion 6C						
		12,12	17,24	11,14	15,16	12,12	
	3e	11,11	14,14	13,14	17,23	12,12	10,12
		14,20	13,14	29,29	15,15	XX	11,12
		21,25	11,12	13,16	22.2,27.2	9,9.3	8,11
	[11],16,17	ND	ND	ND			
3GVWA7	Identifiler® Plus						
			17,19,24		12,15,16,18	8,11,12	
	3e	9,10,11	14			11,12	9,10,12
		14,15,20	12,13,14	29,30,35		X,Y	8,10,11,12
		21,22,23,25				7,9,9.3	8,11
	11,16,17,18						
3H8LJB	Identifiler® Plus						
			17,(19),24		(12),15,16,(18)	(8),(11),12	
	3e	(9),(10),11	14			(11),12	(9),10,12
		14,(15),20	(12),13,14	29,(30),(35)		X,(Y)	(8),(10),11,12
		21,(22),(23),25				(7),9,9.3	8,11
	(11),16,17,(18)						
3NUKPP	GlobalFiler™ (STRmix)						
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2		
3P7XV8	Identifiler® Plus						
			17,24		15,16	12	
	3e	11	14			12	10,12
		14,20	13,14	29		XX	11,12
		21,25				9,9.3	8,11
	16,17						

TABLE 1

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

Item 3e - STR Results

3WPCHD	GlobalFiler™						
		12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12	
	3e	[9],[10],11	14	13,14,[16]	17,[18],23	[11],12	9,10,12
		14,15,20	12,13,14	29,[30],[35]	15,[16],[17]	X,[Y]	[8],[10],11,12
		21,[22],[23],25			[19],22.2,27.2,[28.2]	7,9,9.3	8,11
	[11],16,17,[18]	[10]			[2]		
4478Y8	GlobalFiler™						
		12,12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12,12	N/A
	3e	[9],[10],11,11	14,14	13,14,[16]	17,[18],23	[11],12,12	[9],[9],10,12
		14,[15],20	[12],13,14	29,29,[30],[35]	15,15,[16],[17]	X,X,[X],[Y]	[8],[10],11,12
		21,[22],[23],25	N/A	N/A	[19],22.2,27.2,[28.2]	[7],[7],9,9.3	8,11
	[11],16,17,[18]	[10]	N/A	N/A	[2]		
44P3HU	PowerPlex® Fusion (STRmix)						
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	not tested
	3e	9,10,11	14	13,14,16	17,18,23	11,2	9,10,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
		21,22,23,25	8,10,11,12	13,14,16	not tested	7,9,9.3	8,11
	11,16,17,18	not detected	not tested	not tested	not tested		
49FA3N	GlobalFiler™						
		12,12	17,24	11,[12],13,14	12,15,16,[18]	[8],[11],12	
	3e	[10],11,11	14,14	13,14,[16]	17,[18],23	11,12	9,10,12
		14,15,20	12,13,14	29,29,[30],[35]	15,15,[16]	X,X,[Y]	11,12
		21,[22],[23],25			22.2,27.2,[28.2]	7,9,9.3	8,11
	11,16,17,[18]	10			2		
49VWB6	PowerPlex® Fusion 6C (STRmix)						
		12	17,24	11,14	15,16	12	
	3e	11	14	13,14	17,23	12	10,12
		14,15,20	13,14	29	15	X	11,12
		21,25	11,12	13,16	22.2,27.2	7,9,9.3	8,11
	16,17						
4H7XW6							
		12,(13)	17,(19),24	11,(12,13),14	(12),15,16,(18)	12	
	3e	11	14	13,14,(16)	17,23	(11),12	(9),10,12
		14,(15),20	13,14	29,(30)	15	X,X	(10),11,12
		21,25			22.2,27.2	(7),9,9.3	8,11
	16,17				2		
4HKK8R	PowerPlex® Fusion 5C						
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	Not tested
	3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
		21,22,23,25	8,10,11,12	13,14,16	Not tested	7,9,9.3	8,11
	11,16,17,18	10	Not tested	Not tested	Not tested		

TABLE 1

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

Item 3e - STR Results

4HNZME	GlobalFiler™					
	12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12	
3e	[9],[10],11	14	13,14,[16]	17,[18],23	[11],12	[9],10,12
	14,[15],20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]	[8],[10],11,12
	21,[22],[23],25			[19],22.2,27.2,[28.2]	[7],9,9.3	8,11
	[11],16,17,[18]	10			2	
4KPCZ6	Identifiler® Plus					
		17,19,24		12,15,16,18	8,11,12	
3e	9,10,11	14			11,12	9,10,12
	14,15,20	12,13,14	29,30,35		X,Y	8,10,11,12
	21,22,23,25				7,9,9.3	8,11
	11,16,17,18					
4LJZH2	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
4LNBHD	GlobalFiler™					
	12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12	
3e	[9],[10],11	14	13,14,[16]	17,[18],23	[11],12	[9],10,12
	14,[15],20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]	[8],[10],11,12
	21,[22],[23],25			[19],22.2,27.2,[28.2]	7,9,9.3	8,11
	[11],16,17,[18]	10			2	
4PPAXD	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
4QXDJN	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
4RPMEB	GlobalFiler™					
	12,12,[13],[15]	17,[19],[24],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12,12	N/A
3e	[9],[10],11,11	[14],[14],14,14	13,[14],14,[16]	[17],17,[18],23	[11],[11],12,12	[9],[9],10,12
	14,[15],[15],20	[12],13,[14],14	29,29,[30],[35]	15,15,[16],[17]	X,X,[X],[Y]	[8],11,12
	21,[22],[23],25	N/A	N/A	[19],22.2,27.2,[28.2]	[7],[7],9,9.3	[8],[8],8,11
	[11],16,17,[18]	[10]	N/A	N/A	[2]	

TABLE 1

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

Item 3e - STR Results

6AN7LX	GlobalFiler™					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14,14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
6JVLUQ	GlobalFiler™					
		12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12
	3e	[9],[10],11	14,14	13,14,[16]	17,23	[11],12
		14,[15],20	[12],13,14	29,29	15,[16],[17]	X,[Y]
		21,[22],[23],25			[19],22.2,[27.2]	[7],9,9.3
	[11],16,17	10			2	
6NKEM7	GlobalFiler™					
		12,12,[13],[15]	17,19,24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12,12
	3e	[9],11,11	14,14	13,14,[16]	17,[18],23	11,12
		14,15,20	[12],13,14	29,29,[30]	15,15,[16],[17]	X,X,[Y]
		21,[22],[23],25			[19],22.2,27.2,[28.2]	7,9,9.3
	[11],16,17,[18]	[10]			[2]	
6NPHGW	Investigator® 24plex (STRmix)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
6ZFCPJ	GlobalFiler™ (STRmix)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
78VFBC	GlobalFiler™ (STRmix)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
7BUQ8C	GlobalFiler™					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	

TABLE 1

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

Item 3e - STR Results

7JM9GE	PowerPlex® Fusion 6C (STRmix 2.6.3)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16	19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10	19	17		
7LUJDH	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
7RKUMG	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
7Y49GD	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
83ZU8G	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
86LPNU	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
8HEA4K	GlobalFiler™ IQC					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14,14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10	19	17	2	

TABLE 1

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

Item 3e - STR Results

8MKZ8Q	GlobalFiler™ (STRmix)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
8WV2TR	GlobalFiler™ (STRmix)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
8YFAX7	Identifiler® Plus					
			17,19,24		12,15,16,18	8,11,12
	3e	9,10,11	14			11,12
		14,15,20	12,13,14	29,30,35		X,Y
		21,22,23,25				7,9,9.3
	11,16,17,18				8,11	
92ZMUU	ESI17 Fast (DNA Insight)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	Not tested
	3e	Not tested	14,14	13,14,16	17,18,23	Not tested
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		16,21,22,23,25	Not tested	Not tested	19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	Not tested	Not tested	Not tested	Not tested	
9B9WLT	GlobalFiler™					
		12	17,24	11,14	15,16	12
	3e	11	14	13,14	17,23	12
		14,20	13,14	29	15	X,X
		21,25			22.2,27.2	9,9.3
	16,17	NM			NM	
9DG369	GlobalFiler™					
		12,[13],[15]	17,19,24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12
	3e	[9],[10],11	14	13,14,[16]	17,[18],23	11,12
		14,15,20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]
		21,22,23,25			[19],22.2,27.2,[28.2]	7,9,9.3
	[11],16,17,[18]	10			2	
9F4QG9	GlobalFiler™ (STRmix)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,[28.2]	7,9,9.3
	11,16,17,18	10			2	

TABLE 1

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

Item 3e - STR Results

9NBN3Q	GlobalFiler™					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
9NW2PJ	GlobalFiler™ (STRmix)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14,14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
9YPPFC	GlobalFiler™					
		12,13,15	[17],19,24	[11],12,13,[14]	12,[15,16],18	8,11,[12]
	3e	9,10,11	14,14	[13],14,16	17,18,[23]	11,[12]
		[14],15,[20]	12,[13],14	[29],30,35	15,16,17	X,[Y]
		[21],22,23,[25]			19,[22.2,27.2],28.2	7,[9,9.3]
	11,[16,17],18	10	19	17	2	
9Z9GGA	PowerPlex® PFusion 6C (STRmix v2.5.11)					
		12	17,24	11,14	15,16	12
	3e	11	14	13,14	17,23	12
		14,20	13,14	29	15	X,Y
		21,25	11,12	13,16	19,22.2,27.2	7,9,9.3
	16,17,18	NR	NR	NR		
A6HTEA	GlobalFiler™					
		12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12
	3e	[9],[10],11	14	13,14,[16]	17,[18],23	[11],12
		14,[15],20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]
		21,[22],[23],25			[19],22.2,27.2,[28.2]	[7],9,9.3
	[11],16,17,[18]	9,10			2	
A9VKGW	PowerPlex® Fusion 5C					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25	8,10,11,12	13,14,16		7,9,9.3
	11,16,17,18	10			8,11	
AELY4H	GlobalFiler™ (STRmix)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	

TABLE 1

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

Item 3e - STR Results

AFW4EL	GlobalFiler™					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
AFYQXK	GlobalFiler™ (STRmix)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
AG9R27	PowerPlex® Fusion 6C					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25	8,10,11,12	13,14,16	19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10	19	17		
AHL7MU	PowerPlex® Fusion					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25	8,10,11,12	13,14,16		7,9,9.3
	11,16,17,18	10			8,11	
AQEGWP	PowerPlex® ESI-17					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	
	3e		14,14	13,14,16	17,18,23	9,10,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18					
ATLXTZ	PowerPlex® ESI-17 Fast					
		12,12,[13,15]	17,[19],24	11,[12,13],14	[12],15,16,[18]	
	3e		14,14	13,14,[16]	17,[18],23	[9],10,12
		14,[15],20	[12],13,14	29,29,[30,35]	15,15,[16,17]	X,X,[Y]
		21,[22,23],25			[19],22.2,27.2,[28.2]	[7],9,9.3
	[11],16,17,[18]					
AUFLCV	GlobalFiler™					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	

TABLE 1

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

Item 3e - STR Results

B7QPY6	PowerPlex® Fusion 6C					
	12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12	
3e	[9],[10],11	14,14	13,14,[16]	17,[18],23	[11],12	[9],10,12
	14,[15],20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]	[8],[10],11,12
	21,[22],[23],25	[8],[10],11,12	13,[14],16	[19],22.2,27.2,[28.2]	[7],9,9.3	8,11
	[11],16,17,[18]	10	19	17		
B8XWB7	GlobalFiler™ (STRmix)					
	12,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,11	14	13,14,16	17,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
BAQMLQ	GlobalFiler™					
	12	17,24	11,14	15,16	12	
3e	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17	NM			NM	
BJA4CC	PowerPlex® Fusion					
	12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],12	
3e	[9],[10],11	14	13,14	17,[18],23	[11],12	[9],10,12
	14,[15],20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]	[8],[10],11,12
	21,[22],[23],25	[8],11,12	13,16		[7],9,9.3	8,11
	[11],16,17,[18]	10				
BJELAB	GlobalFiler™					
	12,[13],15	17,[19],24	11,[12],13,14	[12],15,16,[18]	[8,11],12	
3e	[9,10],11	14	13,14,[16]	17,[18],23	[11],12	9,10,12
	14,15,20	[12],13,14	29,[30]	15,[16],17	X,[Y]	[8,10],11,12
	21,[22,23],25			[19],22.2,27.2,[28.2]	7,9,9.3	8,11
	[11],16,17,[18]	[10]			[2]	
BR622Z	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
BTGZVA	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	

TABLE 1

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

Item 3e - STR Results

BUAR6U	PowerPlex® Fusion					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16		7,9,9.3	8,11
	11,16,17,18	10				
BZFKZQ	GlobalFiler™					
	12	17,24	11,14	15,16	12	
	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X,X	11,12
	21,25			22,2,27.2	9,9.3	8,11
	16,17	NM		NM		
C8F8MJ	Investigator® 24plex					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,(Y)	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10				
CBEHJJ	NGM SElect					
	12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]		
	9,10,11	14,14	13,14,[16]	17,[18],23		[9],10,12
	14,[15],20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]	
	21,[22],[23],25			[19],22.2,27.2,[28.2]	[7],9,9.3	
	[11],16,17,[18]					
CFBXG8	PowerPlex® Fusion 6C (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16	19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10	19	17		
CK6YEF	GlobalFiler™					
	12,12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12,12	
	[9],[10],11,11	14,14	13,14,[16]	17,[18],23	11,12	9,10,12
	14,15,20	12,13,14	29,29,[30],[35]	15,[16],[17]	X,X,[Y]	[8],10,11,12
	21,22,23,25			[19],22.2,27.2,[28.2]	7,9,9.3	8,11
	[11],16,17,[18]	10		2		
CNJY9L	PowerPlex® Fusion (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16		7,9,9.3	8,11
	11,16,17,18	10				

TABLE 1

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

Item 3e - STR Results

CQ7DXV	PowerPlex® Fusion 6C (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,12	
3e	9,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,17	X,Y	8,11,12
	21,22,23,25	8,10,11,12	13,14,16	19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10	19	17		
CYMUP6	GlobalFiler™ (STRmix)					
	12,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
D3GBF4	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
D8PQQD	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14,14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
DC72ZB	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
DH89JK	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
DJ773T	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	

TABLE 1

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

Item 3e - STR Results

DVUH6P	PowerPlex® Fusion 5C					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16		7,9,9.3	8,11
	11,16,17,18	10				
E9ZXME	GlobalFiler™					
	12,[13],[15]	17,19,24	11,12,13,14	[12],15,16,[18]	[8],[11],12	
3e	[9],[10],11	14	13,14,[16]	17,18,23	[11],12	9,10,12
	14,15,20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]	[8],[10],11,12
	21,[22],[23],25			[19],22.2,27.2,[28.2]	7,9,9.3	8,11
	[11],16,17,[18]	[10]			[2]	
EBP2KT	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
EDX6HB	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
EFFG38	PowerPlex® 5C					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	--
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16	--	7,9,9.3	8,11
	11,16,17,18	10	--	--	--	
EHNNA8	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
EUFD8R	PowerPlex® ES17 FAST					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18		
3e		14,14	13,14,16	17,18,25		9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	
	21,22,23,25			19,22.2,(25),27.2,28.2	7,9,9.3	
	11,16,17,18			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 3e - STR Results

EYC3PK	GlobalFiler™ (STRmix v2.6.3.04)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	9,10,11	14,14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10		2		
F3UCK4	PowerPlex® Fusion					
	12,[13],[15]	17,[19],24	11,[12],14	[12],15,16,[18]	[8],12	
	[9],11	14,14	13,14	17,[18],23	[11],12	10,12
	14,[15],20	[12],13,14	29,[30]	15,15	X,[Y]	11,12
	21,[22],[23],24	[8],11,12	13,[14],16		[7],9,9.3	8,11
	[11],16,17,[18]	[10]				
F832GH	PowerPlex® Fusion (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	9,10,11	14	13,14	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16		7,9,9.3	8,11
	11,16,17,18	10				
FFD43H	PowerPlex® Fusion5C (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16		7,9,9.3	8,11
	11,16,17,18	10				
FL6D9A	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10		2		
G39A6E	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10		2		
G7RBD8	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10		2		

TABLE 1

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

Item 3e - STR Results

G8HMMD	GlobalFiler™						
		12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12	
	3e	[9],[10],11	14	13,14,[16]	17,[18],23	[11],12	[9],10,12
		14,[15],20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]	[8],[10],11,12
		21,[22],[23],25			[19],22.2,27.2,[28.2]	7,9,9.3	8,11
	[11],16,17,[18]	10			2		
G9TMND	GlobalFiler™						
		12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12	
	3e	[9],[10],11	14,14	13,14,[16]	17,[18],23	[11],12	[9],10,12
		14,15,20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]	[8],[10],11,12
		21,[22],[23],25			[19],22.2,27.2,[28.2]	[7],9,9.3	8,[11]
	[11],16,17,[18]	10			2		
GAMDUT	Identifiler® Plus						
			17,19,24		12,15,16,18	8,11,12	
	3e	9,10,11	14			11,12	9,10,12
		14,15,20	12,13,14	29,30,35		X,Y	8,10,11,12
		21,22,23,25				7,9,9.3	8,11
	11,16,17,18						
GBF2CN	GlobalFiler™						
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2		
GMUYJD	GlobalFiler™						
		12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12	
	3e	[9],[10],11	14,14	13,14,[16]	17,[18],23	[11],12	[9],10,12
		14,15,20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]	[8],[10],11,12
		21,[22],[23],25			[19],22.2,27.2,[28.2]	[7],9,9.3	8,11
	[11],16,17,[18]	10			2		
GMXEXY	GlobalFiler™						
		12,12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12,12	
	3e	[9],[10],11,11	14,14	13,14,[16]	17,[18],23	[11],12,12	[9],10,12
		14,[15],20	[12],13,14	29,29,[30],[35]	15,15,[16],[17]	X,X,[X],[Y]	[10],11,12
		21,[22],[23],25			[19],22.2,27.2,[28.2]	[7],9,9.3	8,11
	[11],16,17,[18]	[10]			[2]		
GPV6UC	GlobalFiler™ (STRmix)						
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2		

TABLE 1

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

Item 3e - STR Results

GQDAEV	PowerPlex® Fusion 6C					
	12,12	17,[19],24	11,[13],14	[12],15,16,[18]	12,12	
3e	[9],11,11	14,14	13,14,[16]	17,[18],23	12,12	10,12
	14,[15],20	13,14	29,29	15,15,[17]	X,X,[Y]	[10],11,12
	21,[22],[23],25	[8],[10],11,12	13,16	[19],22.2,27.2	[7],9,9.3	8,11
	[11],16,17,[18]	[10]	[19]	ND		
GUQW4U	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
GV3TCK	GlobalFiler™					
	12	17,24	11,14	15,16	12	
3e	11	14	13,14	17,23	12	10,12
	14,20	13,14	29	15	X,X	11,12
	21,25			22.2,27.2	9,9.3	8,11
	16,17	NM			NM	
HLWY6Y	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,12	
3e	9,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
HWH4CX	GlobalFiler™					
	12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12	
3e	[9],[10],11	14	13,14,[16]	17,[18],23	[11],12	9,10,12
	14,[15],20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]	[8],[10],11,12
	21,[22],[23],25			[19],22.2,27.2,[28.2]	7,9,9.3	8,11
	[11],16,17,[18]	10			2	
HX8L2C	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
J3EER2	Identifiler®					
3e						

TABLE 1

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

Item 3e - STR Results

JAWYFY	GlobalFiler™ (STRmix)					
		12,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
JBDW9Y	GlobalFiler™ (STRmix)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
JJ4MJX	GlobalFiler™					
		12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12
	3e	[9],[10],11	14	13,14,[16]	17,[18],23	[11],12
		14,[15],20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]
		21,[22],[23],25			[19],22.2,27.2,[28.2]	7,9,9.3
	[11],16,17,[18]	10			2	
JUB87Z	GlobalFiler™					
		12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12
	3e	[9],[10],11	14	13,14,[16]	17,[18],23	11,12
		14,[15],20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]
		21,[22],[23],25			[19],22.2,27.2,[28.2]	7,9,9.3
	[11],16,17,[18]	10,11			2	
K3CYZM	GlobalFiler™ (Genemapper ID-x)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
KADDN9	GlobalFiler™					
		12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12
	3e	[9],[10],11	14,14	13,14,[16]	17,[18],23	[11],12
		14,[15],20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]
		21,[22],[23],25			[19],22.2,27.2,[28.2]	[7],9,9.3
	[11],16,17,[18]	10			2	
KEMMWQ	GlobalFiler™					
		12,12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12,12
	3e	[9],[10],11,11	14,14	13,14,[16]	17,[18],23	[11],12,12
		14,[15],20	[12],13,14	29,29,[30]	15,15,[17]	X,[Y]
		21,[22],[23],25			[19],22.2,27.2,[28.2]	7,9,9.3
	[11],16,17,[18]	[10]			[2]	

TABLE 1

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

Item 3e - STR Results

KKEP6W	PowerPlex® Fusion 6C					
		12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12
	3e	[9],[10],11	14,14	13,14,[16]	17,[18],23	[9],10,12
		14,[15],20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y] [8],[10],11,12
		21,[22],[23],25	[8],[10],11,12	13,[14],16	[19],22.2,27.2,[28.2]	[7],9,9.3 8,11
	[11],16,17,[18]	10	19	17		
KNCBRT	Identifiler® Plus					
			17,19,24		12,15,16,18	8,11,12
	3e	9,10,11	14		11,12	9,10,12
		14,15,20	12,13,14	29,30,35	X,Y	8,10,11,12
		21,22,23,25			7,9,9.3	8,11
	11,16,17,18					
L2GZ2E	GlobalFiler™ (STRmix)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12 9,10,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y 8,10,11,12
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3 8,11
	11,16,17,18	10			2	
LFCGQC	GlobalFiler™					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,11	14	13,14,16	17,18,23	11,12 9,10,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y 8,10,11,12
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3 8,11
	11,16,17,18	10			2	
LMX49W	GlobalFiler™					
		12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12
	3e	[9],[10],11	14	13,14,[16]	17,[18],23	[11],12 [9],10,12
		14,[15],20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y] [8],[10],11,12
		21,[22],[23],25			[19],22.2,27.2,[28.2]	7,9,9.3 8,11
	[11],16,17,[18]	10			2	
LNVFPX	PowerPlex® Fusion 6C (STRmix V2.5.11)					
		12,13,15	17,19,24	11,12,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12 9,10,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y 8,10,11,12
		21,22,23,25	8,10,11,12	13,14,16	19,22.2,27.2,28.2	7,9,9.3 8,11
	11,16,17,18	10	19	17		
M29FQG	PowerPlex® Fusion					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12 9,10,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y 8,10,11,12
		21,22,23,25	8,10,11,12	13,14,16		7,9,9.3 8,11
	11,16,17,18	10				

TABLE 1

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

Item 3e - STR Results

M8HKPV	GlobalFiler™					
	12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12	
	3e [9],[10],11	14	13,14,[16]	17,[18],23	[11],12	[9],10,12
	14,[15],20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]	[8],[10],11,12
	21,[22],[23],25			[19],22.2,27.2,[28.2]	[7],9,9.3	8,11
	[11],16,17,[18]	9,10		2		
MH3VYM	GlobalFiler™					
	12,12,[13],[15]	17,[19],24	11,[12],14	15,16,[18]	[11],12,12	
	3e [9],11,11	14,14	13,14	17,23	12,12	10,12
	14,[15],20	[12],13,14	29,29	15,15,[17]	X,X,[Y]	11,12
	21,[22],[23],25			[19],22.2,27.2,[28.2]	[7],9,9.3	8,11
	[11],16,17,[18]	[10]				
MNRBRZ	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	3e 9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10		2		
MQC88D	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	3e 9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10		2		
MTGYX7	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	3e 9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10		2		
MXTWUT	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,12	
	3e 9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10		2		
N8X6VQ	GlobalFiler™					
	12,12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12,12	N/A
	3e [9],11,11	14,14	13,14,[16]	17,[18],23	[11],[11],12,12	[9],10,12
	14,[15],[15],20	[12],13,14	29,29,[30],[35]	15,15,[17]	X,X,[Y]	[8],[10],11,12
	21,[22],[23],25	N/A	N/A	[19],22.2,27.2,[28.2]	[7],9,9.3	8,11
	[11],16,17,[18]	[10]	N/A	N/A	[2]	

TABLE 1

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

Item 3e - STR Results

NDMHXZ	GlobalFiler™					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
NFQF6L	GlobalFiler™					
		12,12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12,12
	3e	[9],[10],11,11	14,14	13,14,[16]	17,[18],23	[11],12,12
		14,[15],20	[12],13,14	29,29,[30],[35]	15,15,[16],[17]	X,X,[Y]
		21,[22],[23],25			[19],22.2,27.2,[28.2]	[7],9,9.3
	[11],16,17,[18]	[10]			[2]	
NGGTJX	GlobalFiler™					
		12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12
	3e	[9],[10],11	14	13,14,[16]	17,18,23	11,12
		14,15,20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]
		21,[22],[23],25			[19],22.2,27.2,[28.2]	7,9,9.3
	[11],16,17,[18]	[10]			[2]	
NJQPBH	GlobalFiler™ (STRmix)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
NYK237	GlobalFiler™ (STRmix)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
NZUDF2	GlobalFiler™ (STRmix)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
P4URQX	GlobalFiler™					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	

TABLE 1

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

Item 3e - STR Results

P933VL	Investigator® 24plex QS					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	N/A
3e	9,10,11	14,14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16	X,Y	8,10,11,12
	21,22,23,25	N/A	N/A	19,22.2,27.2,38.2	7,9,9.3	8,11
	16,17,18	10	N/A	N/A	N/A	
PFZYCW	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
PPXH4R	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
PRJBU2	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10				
PTYJ8V	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
QB4MXC	ESI 17 FAST					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18		
3e		14	13,14,16	17,18,23		9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	
	11,16,17,18					
QB9ZNT	PowerPlex® Fusion 6C (STRMix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16	19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10	19	17		

TABLE 1

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

Item 3e - STR Results

QFJ3N4	GlobalFiler™					
	12,[13],[15]	17,19,24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12	
	3e [9],[10],11	14	13,14,[16]	17,[18],23	11,12	[9],10,12
	14,[15],20	12,13,14	29,[30],[35]	15,[16],[17]	X,[Y]	[8],[10],11,12
	21,[22],[23],25			[19],22.2,27.2,[28.2]	[7],9,9.3	8,11
	[11],16,17,[18]	[10]		[2]		
QJW3KU	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	3e 9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10		2		
QKYLTR	PowerPlex® Fusion 6C					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	3e 9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16	19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10	19	17		
QREB9R	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	3e 9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10		2		
QTMJE6	PowerPlex® PowerPlex® Fusion					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	3e 9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16		7,9,9.3	8,11
	11,16,17,18	10				
QU2QX2	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	3e 9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10		2		
QVCRJZ	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
	3e 9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10		2		

TABLE 1

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

Item 3e - STR Results

QYVRXU	PowerPlex® Fusion 5C					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16		7,9,9.3	8,11
	11,16,17,18	10				
R2W63Y	GlobalFiler™					
	12,12,[13],[15]	17,19,24	11,12,13,14	12,15,16,[18]	[8],[11],12	
3e	[9],[10],11	14,14	13,14,[16]	17,[18],23	11,12	9,10,12
	14,15,20	[12],13,14	29,29,[30],[35]	15,15,[16],[17]	X,X,[Y]	[8],[10],11,12
	21,22,23,25			[19],22.2,27.2,[28.2]	7,9,9.3	8,11
	[11],16,17,[18]	10			2	
R7CQWR	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
RB43RN	PowerPlex® Fusion 6C					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16	19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10	19	17		
RTGQX9	Investigator® 24plex (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10				
RZ7W3W	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
RZNVA3	GlobalFiler™					
	12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12	
3e	[9],[10],11	14,14	13,14,[16]	17,23	[11],12	[9],10,12
	14,[15],20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]	[8],[10],11,12
	21,[22],[23],25			[19],22.2,27.2,[28.2]	[7],9,9.3	8,[11]
	[11],16,17,[18]	NR			2	

TABLE 1

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

Item 3e - STR Results

T2TZ7M	PowerPlex® Fusion 6C					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16	19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10	19	17		
TJ8JT	GlobalFiler™					
	12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12	
3e	[9],11	14,14	13,14,[16]	17,[18],23	[11],12	9,10,12
	14,15,20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]	[8],[10],11,12
	21,[22],[23],25			[19],22.2,27.2,[28.2]	7,9,9.3	8,11
	[11],16,17,[18]	[10]			[2]	
TJXLC	PowerPlex® Fusion 5C					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16		7,9,9.3	8,11
	11,16,17,18	10				
TR2QBY	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
TUF67M	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
U3GXP	GlobalFiler™ (TrueAllele)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
UA78MQ	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	

TABLE 1

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

Item 3e - STR Results

UF8UQC	GlobalFiler™ (Genemapper ID-x)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
UK3NMR	GlobalFiler™					
	12,[13,15]	17,[19],24	11,[12,13],14	[12],15,16,[18]	[8,11],12	
3e	[9],11	14	13,14,[16]	17,[18],23	[11],12	9,10,12
	14,[15],20	[12],13,14	29,[30,35]	15,[16,17]	X,[Y]	[8,10],11,12
	21,[22,23],25			[19],22.2,27.2,[28.2]	[7],9,9.3	8,11
	16,17,[18]	[10]			[2]	
V2799M	PowerPlex® Fusion 6C (STRmix v2.5.11)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16	19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10	19	17		
V47QZM	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
V8QKWN	PowerPlex® Fusion SYSTEM (M-FISys 11.09)					
	12,12	17,24	11,14	15,16	12,12	
3e	11,11	14,14	13,14	17,23	12,12	10,12
	14,20	13,14	29,29	15,15	X,X	11,12
	21,25	11,12	13,16		9,9.3	8,11
	16,17					
V8T7NX	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
VA37XB	GlobalFiler™					
	12,12	17,[19],24	11,[12,13],14	[12],15,16,[18]	[8,11],12,12	
3e	[10],11,11	14,14	13,14	17,[18],23	[11],12,12	[9],10,12
	14,[15],20	[12],13,14	29,29,[30,35]	15,15,[16,17]	X,X,[Y]	[8,10],11,12
	21,[22,23],25			22.2,27.2,[28.2]	[7],9,9.3	8,11
	16,17	[10]			[2]	

TABLE 1

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

Item 3e - STR Results

VDJF32	PowerPlex® Fusion					
	12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12	NT
3e	[9],[10],11	14,14	13,14,[16]	17,[18],23	[11],12	[9],10,12
	14,[15],20	13,14	29,[30],[35]	15,[16],[17]	X,[Y]	[8],[10],11,12
	21,[22],[23],25	[8],[10],11,12	13,[14],16	NT	[7],9,9.3	8,11
	[11],16,17,[18]	[10]	NT	NT	NT	
VPEKGU	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
VQL3BJ	GlobalFiler™					
	12,12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],12,12	
3e	[9],[11],11	14,14	13,14,[16]	17,[18],23	[11],12,12	[9],10,12
	14,[15],20	13,14	29,29,[30],[35]	15,15,[16],[17]	X,X,[Y]	[8],11,12
	21,[22],[23],25			[19],22.2,27.2,[28.2]	[7],9,9.3	8,11
	[11],16,17,[18]	[10]			[2]	
VX8XCM	PowerPlex® Fusion 6C (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14,14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16	19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10	19	17		
W2J68Z	PowerPlex® 5C (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16		7,9,9.3	8,11
	11,16,17,18	10				
W2NHWG	PowerPlex® PP21 (STRmix)					
	12,13,15	17,19,24		12,15,16,18	8,11,12	11,12,13,16
3e	9,10,11	14,14		17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35		X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16		7,9,9.3	8,11
	11,16,17,18					
W4ADDU	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	

TABLE 1

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

Item 3e - STR Results

WGFHNG	PowerPlex® ESX 16 Fast					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18		
3e		14	13,14,16	17,18,23		9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	
	21,22,23,25				7,9,9.3	
	11,16,17,18					
WMYMEW	PowerPlex® Fusion 6C (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16	19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10	19	17		
WT3TRD	Investigator® 24plex QS					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	n/a
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	n/a	n/a	19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10	n/a	n/a	n/a	
WZ49EZ	PowerPlex® Fusion 5C					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25	8,10,11,12	13,14,16		7,9,9.3	8,11
	11,16,17,18	10				
XDNP4X	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
XH4F9T	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
XXZMDL	GlobalFiler™					
	12,[13],[15]	17,[19],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12	
3e	[9],[10],11	14	13,14,[16]	17,[18],23	11,12	9,10,12
	14,[15],20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]	[8],[10],11,12
	21,[22],[23],25			[19],22.2,27.2,[28.2]	7,9,9.3	8,11
	[11],16,17,[18]	10			2	

TABLE 1

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

Item 3e - STR Results

Y767YN	GlobalFiler™					
	12,[13],[15]	17,[19],24	11,12,13,14	[12],15,16,[18]	[8],[11],12	--
3e	[9],11	14	13,14,[16]	17,[18],23	[11],12	9,10,12
	14,15,20	[12],13,14	29,[30],[35]	15,[16],[17]	X,[Y]	[8],[10],11,12
	21,[22],[23],25	--	--	[19],22.2,27.2,[28.2]	7,9,9.3	8,11
	[11],16,17,[18]	[10]	--	--	[2]	
Y8JG3M	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
YGTN6H	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
YJNNRT	GlobalFiler™ (STRmix)					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
YKLYR2	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
YQ9RYV	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	
YQHEPP	GlobalFiler™					
	12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12	
3e	9,10,11	14	13,14,16	17,18,23	11,12	9,10,12
	14,15,20	12,13,14	29,30,35	15,16,17	X,Y	8,10,11,12
	21,22,23,25			19,22.2,27.2,28.2	7,9,9.3	8,11
	11,16,17,18	10			2	

TABLE 1

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

Item 3e - STR Results

YZZ6YU	GlobalFiler™ (STRmix)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
Z6UEUE	GlobalFiler™					
		12,12,[13],[15]	17,[19],[24],24	11,[12],[13],14	[12],15,16,[18]	[8],[11],12,12
	3e	[9],[10],11,11	14,14	13,14,[14],[16]	17,[17],[18],23	[11],[11],12,12
		14,[15],[15],20	[12],13,14,[14]	29,29,[30],[35]	15,15,[16],[17]	X,[Y]
		21,[22],[23],25	NA	NA	[19],22.2,27.2,[28.2]	[7],[7],9,9.3
	[11],16,17,[18]	[10]	NA	NA	[2]	
ZG7NEX	PowerPlex® Fusion					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25	8,10,11,12	13,14,16		7,9,9.3
	11,16,17,18	10				
ZHD9XR	GlobalFiler™ (STRmix)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
ZTWHLK	GlobalFiler™					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
ZWWW8P	GlobalFiler™ (STRmix)					
		12,13,15	17,19,24	11,12,13,14	12,15,16,18	8,11,12
	3e	9,10,11	14	13,14,16	17,18,23	11,12
		14,15,20	12,13,14	29,30,35	15,16,17	X,Y
		21,22,23,25			19,22.2,27.2,28.2	7,9,9.3
	11,16,17,18	10			2	
ZYKDDG	GlobalFiler™					
		12,(13),(15)	17,(19),24	11,(12),(13),14	(12),15,16,(18)	(8),(11),12
	3e	(9),(10),11	14	13,14,(16)	17,(18),23	(11),12
		14,(15),20	(12),13,14	29,(30),(35)	15,(16),(17)	X,(Y)
		21,(22),(23),25			(19),22.2,27.2,(28.2)	(7),9,9.3
	(11),16,17,(18)	10			2	

TABLE 1

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

Item 3sp - STR Results

29MXAH	PowerPlex® Fusion 6C (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14	19,28.2	7,7	8,8
		11,18	10	19	17		
29PKTG	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	13
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
2J4HTE	PowerPlex® Fusion 6C						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14	19,28.2	7,7	8,8
		11,18	10	19	17		
2JN9W8	PowerPlex® Fusion 6C (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14	19,28.2	7	8
		11,18	10	19	17		
2MYMXH	PowerPlex® Fusion 6C						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14	19,28.2	7,7	8,8
		11,18	10	19	17		
2UM4RG	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
2VFU33	PowerPlex® 23, GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
		11,18	10			2	

TABLE 1

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

Item 3sp - STR Results

2Z9YTK	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
		11,18	10			2	
3BN68Z	PowerPlex®						
		13,15	19,24	12,13	12,18		
	3sp		14	14,16	17,18		9
		15	12,14	30,35	16,17	X,Y	
		22,23			19,28.2	7	
		11,18					
3C3PZB	PowerPlex® Fusion 6C						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14	19,28.2	7,7	8,8
		11,18	10	19	17		
3GVWA7	Identifiler® Plus						
			19,24		12,18	8,11	
	3sp	9,10	14			11	9
		15	12,14	30,35		X,Y	8,10
		22,23				7	8
		11,18					
3H8LJB	Identifiler® Plus						
			19,24		12,18	8,11	
	3sp	9,10	14,14			11,11	9,9
		15,15	12,14	30,35		X,Y	8,10
		22,23				7,7	8,8
		11,18					
3NUKPP	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,9	8
		11,18	10			2	
3P7XV8	Identifiler® Plus						
			19,24		12,18	8,11	
	3sp	9,10	14			11	9
		15	12,14	30,35		X,Y	8,10
		22,23				7	8
		11,18					

TABLE 1

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

Item 3sp - STR Results

3WPCHD	GlobalFiler™					
		12,13,15	[17],19,24	[11],12,13,[-]	12,[15],18,[-]	8,11,[12]
	3sp	9,10,[11]	14	[13],14,16	17,18,[-]	11,[12]
		15,[-]	12,[13],14	[29],30,35	15,16,17	X,Y
		[21],22,23,[-]			19,[22.2],[27.2],28.2	7,[9],[-]
	11,18,[-]	10			2	
4478Y8	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23	N/A	N/A	19,28.2	7,7
	11,18	10	N/A	N/A	2	
44P3HU	PowerPlex® Fusion (STRmix)					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14	not tested	7,7
	11,18	10	not tested	not tested	not tested	
49FA3N	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
	11,18	10			2	
49VWB6	PowerPlex® Fusion 6C (STRmix)					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14	19,28.2	7
	11,18	10	19	17		
4H7XW6						
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
	11,18	10			2	
4HKK8R	PowerPlex® Fusion 5C					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14	Not tested	7
	11,18	10	Not tested	Not tested	Not tested	

TABLE 1

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

Item 3sp - STR Results

4HNZME	GlobalFiler™					
		13,15	19,[20],24	12,13	12,18	8,11
	3sp	9,10,[11]	14	14,16	17,18	11
		15	12,14	30,[31],35,[36]	16,17,[18],[19]	X,Y
		22,23			19,28.2	[4],7
	11,18	10			2	
4KPCZ6	Identifiler® Plus					
			19,24		12,18	8,11
	3sp	9,10	14			11
		15	12,14	30,35		X,Y
		22,23				7
	11,18				8	
4LJZH2	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
	11,18	10			8	
4LNBHD	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	[4],7
	11,18	10			8	
4PPAXD	GlobalFiler™ (STRmix)					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
	11,18	10			8	
4QXDJN	GlobalFiler™ (STRmix)					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
	11,18	10			8	
4RPMEB	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23	N/A	N/A	19,28.2	7,7
	11,18	10	N/A	N/A	2	
					8,8	

TABLE 1

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

Item 3sp - STR Results

6AN7LX	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
	11,18	10			2		
6JVLUQ	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
	11,18	10			2		
6NKEM7	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	[7]	8,8
	11,18	10			2		
6NPHGW	Investigator® 24plex (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
	11,18	10					
6ZFCPJ	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		
78VFBC	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		
7BUQ8C	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		

TABLE 1

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

Item 3sp - STR Results

7JM9GE	PowerPlex® Fusion 6C (STRmix 2.6.3)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	19,28.2	7	8
	11,18	10	19	17		
7LUJDH	GlobalFiler™ (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
7RKUMG	GlobalFiler™ (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
7Y49GD	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
83ZU8G	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
86LPNU	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
8HEA4K	GlobalFiler™ IQC					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10	19	17	2	

TABLE 1

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

Item 3sp - STR Results

8MKZ8Q	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		
8WV2TR	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		
8YFAX7	Identifiler® Plus						
			19,24		12,18	8,11	
	3sp	9,10	14,14			11,11	9,9
		15,15	12,14	30,35		X,Y	8,10
		22,23				7,7	8,8
	11,18						
92ZMUU	ESI17 Fast (DNA Insight)						
		13,15	19,24	12,13	12,18	Not tested	Not tested
	3sp	Not tested	14,14	14,16	17,18	Not tested	9,9
		15,15	12,14	30,35	16,17	X,Y	Not tested
		(15),22,23	Not tested	Not tested	19,28.2	7,7	Not tested
	11,18	Not tested	Not tested	Not tested	Not tested		
9B9WLT	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		
9DG369	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		
9F4QG9	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		

TABLE 1

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

Item 3sp - STR Results

9NBN3Q	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
9NW2PJ	GlobalFiler™ (STRmix)					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
					8,8	
		11,18	10		2	
9YPPFC	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
					8,8	
		11,18	10	19	17	2
9Z9GGA	PowerPlex® PFusion 6C (STRmix v2.5.11)					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14	19,28.2	7,7
					8,8	
		11,18	10	19	17	
A6HTEA	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
A9VKGW	PowerPlex® Fusion 5C					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14		7
					8	
		11,18	10			
AELY4H	GlobalFiler™ (STRmix)					
		13,15	19,24	12,13	12,16,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	

TABLE 1

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

Item 3sp - STR Results

AFW4EL	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2
AFYQXK	GlobalFiler™ (STRmix)					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2
AG9R27	PowerPlex® Fusion 6C					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14	19,28.2	7,7
		11,18	10	19	17	
AHL7MU	PowerPlex® Fusion					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14		7
		11,18	10			8
AQEGWP	PowerPlex® ESI-17					
		13,15	19,24	12,13	12,18	
	3sp		14,14	14,16	17,18	
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18				
ATLXTZ	PowerPlex® ESI-17 Fast					
		13,15	19,24	12,13	12,18	
	3sp		14,14	14,16	17,18	
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18				
AUFLCV	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2

TABLE 1

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

Item 3sp - STR Results

B7QPY6	PowerPlex® Fusion 6C					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	19,28.2	7,7	8,8
	11,18	10	19	17		
B8XWB7	GlobalFiler™ (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
BAQMLQ	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
BJA4CC	PowerPlex® Fusion					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14		7	8
	11,18	10				
BJELAB	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	
BR622Z	GlobalFiler™ (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
BTGZVA	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	

TABLE 1

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

Item 3sp - STR Results

BUAR6U	PowerPlex® Fusion						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14		7	8
		11,18	10				
BZFKZQ	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
C8F8MJ	Investigator® 24plex						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
		11,18	10				
CBEHJJ	NGM SElect						
		13,15	19,24	12,13	12,18		
	3sp		14,14	14,16	17,18		9,9
		15,15	12,14	30,35	16,17	X,Y	
		22,23			19,[27.2],28.2	7,7	
		11,18					
CFBXG8	PowerPlex® Fusion 6C (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14	19,28.2	7,7	8,8
		11,18	10	19	17		
CK6YEF	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,[34],35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
		11,18	10			2	
CNJY9L	PowerPlex® Fusion (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14		7	8
		11,18	10				

TABLE 1

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

Item 3sp - STR Results

CQ7DXV	PowerPlex® Fusion 6C (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14	19,28.2	7	8
	11,18	10	19	17			
CYMUP6	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		
D3GBF4	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		
D8PQQD	GlobalFiler™ (STRmix)						
		13,15	[17],19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15,[20]	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
	11,18	10			2		
DC72ZB	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		
DH89JK	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		
DJ773T	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		

TABLE 1

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

Item 3sp - STR Results

DVUH6P	PowerPlex® Fusion 5C					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14		7	8
	11,18	10				
E9ZXME	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
EBP2KT	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
EDX6HB	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
EFFG38	PowerPlex® 5C					
	13,15	19,24	12,13	12,18	8,11	--
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	--	7	8
	11,18	10	--	--	--	
EHNNAB	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
EUFD8R	PowerPlex® ES17 FAST					
	13,15	19,24	12,13	12,18		
3sp		14,14	14,16	17,18		9,9
	15,15	12,14	30,35	16,17	X,Y	
	22,23			19,28.2	7,7	
	11,18					

TABLE 1

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

Item 3sp - STR Results

EYC3PK	GlobalFiler™ (STRmix v2.6.3.04)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	
F3UCK4	PowerPlex® Fusion					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14		7,7	8,8
	11,18	10				
F832GH	PowerPlex® Fusion (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14		7	8
	11,18	10				
FFD43H	PowerPlex® Fusion5C (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14		7,7	8,8
	11,18	10				
FL6D9A	GlobalFiler™ (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
G39A6E	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
G7RBD8	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	

TABLE 1

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

Item 3sp - STR Results

G8HMMD	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		
G9TMND	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
	11,18	10			2		
GAMDUT	Identifiler® Plus						
			19,24		12,18	8,11	
	3sp	9,10	14			11	9
		15	12,14	30,35		X,Y	8,10
		22,23				7	8
	11,18						
GBF2CN	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		
GMUYJD	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
	11,18	10			2		
GMXEXY	GlobalFiler™						
		13,15	[17],19,24	[11],12,13,[14]	12,[15],[16],18	8,11,[12]	
	3sp	9,10,[11]	14,14	[13],14,16	17,18,[23]	11,11,[12]	9,9,[10],[12]
		15,15,[20]	12,14	[29],30,35	16,17	X,[X],[X],Y	8,10,[11]
		22,23,[25]			19,[22.2],28.2	7,7,[9]	8,8,[11]
	11,[16],[17],18	10			2		
GPV6UC	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,9	8
	11,18	10			2		

TABLE 1

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

Item 3sp - STR Results

GQDAEV	PowerPlex® Fusion 6C					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	19,28.2	7,7	8,8
	11,18	10	19	17		
GUQW4U	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
GV3TCK	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
HLWY6Y	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
HWH4CX	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
HX8L2C	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
J3EER2	Identifiler®					
		17,19,24		12,15,16,18	8,11,12	
3sp		14,14			11,12	9,10,12
	14,15,20	12,13,14	29,30,35		X,Y	8,10,11,12
	21,22,23,25				7,9,9.3	8,11
	11,16,17,18					

TABLE 1

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

Item 3sp - STR Results

JAWYFY	GlobalFiler™ (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
JBDW9Y	GlobalFiler™ (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
JJ4MJX	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
JUB87Z	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	14
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
K3CYZM	GlobalFiler™ (Genemapper ID-x)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
KADDN9	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	
KEMMWQ	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	

TABLE 1

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

Item 3sp - STR Results

KKEP6W	PowerPlex® Fusion 6C						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14	19,28.2	7,7	8,8
		11,18	10	19	17		
KNCBRT	Identifiler® Plus						
			19,24		12,18	8,11	
	3sp	9,10	14,14			11,11	9,9
		15,15	12,14	30,35		X,Y	8,10
		22,23				7,7	8,8
		11,18					
L2GZ2E	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
LFCGQC	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
LMX49W	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
LNVFPX	PowerPlex® Fusion 6C (STRmix V2.5.11)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14	19,28.2	7,7	8,8
		11,18	10	19	17		
M29FQG	PowerPlex® Fusion						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14		7	8
		11,18	10				

TABLE 1

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

Item 3sp - STR Results

M8HKPV	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
MH3VYM	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14,14	14,16	17,18,[23]	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
					8,8	
		11,18	10		2	
MNRBRZ	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
MQC88D	GlobalFiler™ (STRmix)					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
MTGYX7	GlobalFiler™ (STRmix)					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
MXTWUT	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
N8X6VQ	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23	N/A	N/A	19,28.2	7,7
					8,8	
		11,18	10	N/A	N/A	2

TABLE 1

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

Item 3sp - STR Results

NDMHXZ	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
NFQF6L	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	[7]
					8,8	
		11,18	10		2	
NGGTJX	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
					8,8	
		11,18	10		2	
NJQPBH	GlobalFiler™ (STRmix)					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
NYK237	GlobalFiler™ (STRmix)					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
NZUDF2	GlobalFiler™ (STRmix)					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
P4URQX	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	

TABLE 1

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

Item 3sp - STR Results

P933VL	Investigator® 24plex QS						
		13,15	19,24	12,13	12,18	8,11	N/A
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	N/A	N/A	19,28.2	7,7	8,8
		11,18	10	N/A	N/A	N/A	
PFZYCW	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
		11,18	10			2	
PPXH4R	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
PRJBU2	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
PTYJ8V	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
QB4MXC	ESI 17 FAST						
		13,15	19,24	12,13	12,18		
	3sp		14	14,16	17,18		9
		15	12,14	30,35	16,17	X,Y	
		22,23			19,28.2	7	
		11,18					
QB9ZNT	PowerPlex® Fusion 6C (STRMix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14	19,28.2	7,7	8,8
		11,18	10	19	17		

TABLE 1

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

Item 3sp - STR Results

QFJ3N4	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
QJW3KU	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
QKYLTR	PowerPlex® Fusion 6C					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14	19,28.2	7,7
					8,8	
		11,18	10	19	17	
QREB9R	GlobalFiler™ (STRmix)					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
QTMJE6	PowerPlex® PowerPlex® Fusion					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23	8,10	13,14		7,7
					8,8	
		11,18	10			
QU2QX2	GlobalFiler™ (STRmix)					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	
QVCRJZ	GlobalFiler™ (STRmix)					
		13,15	19,24	12,13	12,18	8,11
	3sp	9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
					8	
		11,18	10		2	

TABLE 1

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

Item 3sp - STR Results

QYVRXU	PowerPlex® Fusion 5C					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14		7	8
	11,18	10				
R2W63Y	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	
R7CQWR	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
RB43RN	PowerPlex® Fusion 6C					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	19,28.2	7,7	8,8
	11,18	10	19	17		
RTGQX9	Investigator® 24plex (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10				
RZ7W3W	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
RZNVA3	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	

TABLE 1

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

Item 3sp - STR Results

T2TZ7M	PowerPlex® Fusion 6C						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14	19,28.2	7,7	8,8
		11,18	10	19	17		
TJ8JTT	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
		11,18	10			2	
TJTXLC	PowerPlex® Fusion 5C						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14		7	8
		11,18	10				
TR2QBY	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
TUF67M	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
U3GXPD	GlobalFiler™ (TrueAllele)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
UA78MQ	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	

TABLE 1

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

Item 3sp - STR Results

UF8UQC	GlobalFiler™ (Genemapper ID-x)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
UK3NMR	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	
V2799M	PowerPlex® Fusion 6C (STRmix v2.5.11)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	19,28.2	7,7	8,8
	11,18	10	19	17		
V47QZM	GlobalFiler™ (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
V8QKWN	PowerPlex® Fusion SYSTEM (M-FISys 11.09)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14,14	14,16	17,18	11,11	9,10
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14		7,7	8,8
	11,18	10				
V8T7NX	GlobalFiler™ (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
VA37XB	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7,7	8,8
	11,18	10			2	

TABLE 1

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

Item 3sp - STR Results

VDJF32	PowerPlex® Fusion						
		13,15	19,24	12,13	12,18	8,11	NT
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14	NT	7,7	8,8
	11,18	10	NT	NT	NT		
VPEKGU	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		
VQL3BJ	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
	11,18	10			2		
VX8XCM	PowerPlex® Fusion 6C (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14	19,28.2	7,7	8,8
	11,18	10	19	17			
W2J68Z	PowerPlex® 5C (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14		7,7	8,8
	11,18	10					
W2NHWG	PowerPlex® PP21 (STRmix)						
		13,15	19,24		12,18	8,11	12,16
	3sp	9,10	14,14		17,18	11,11	9,9
		15,15	12,14	30,35		X,Y	8,10
		22,23	8,10	13,14		7,7	8,8
	11,18						
W4ADDU	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
	11,18	10			2		

TABLE 1

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

Item 3sp - STR Results

WGFHNG	PowerPlex® ESX 16 Fast					
	13,15	19,24	12,13	12,18		
3sp		14	14,16	17,18		9
	15	12,14	30,35	16,17	X,Y	
	22,23				7	
	11,18					
WYMEW	PowerPlex® Fusion 6C (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14	19,28.2	7,7	8,8
	11,18	10	19	17		
WT3TRD	Investigator® 24plex QS					
	13,15	19,24	12,13	12,18	8,11	n/a
3sp	9,10	14,14	14,16	17,18	11,11	9,9
	15,15	12,14	30,35	16,17	X,Y	8,10
	22,23	n/a	n/a	19,28.2	7,7	8,8
	11,18	10	n/a	n/a	n/a	
WZ49EZ	PowerPlex® Fusion 5C					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23	8,10	13,14		7	8
	11,18	10				
XDNP4X	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
XH4F9T	GlobalFiler™ (STRmix)					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	
XXZMDL	GlobalFiler™					
	13,15	19,24	12,13	12,18	8,11	
3sp	9,10	14	14,16	17,18	11	9
	15	12,14	30,35	16,17	X,Y	8,10
	22,23			19,28.2	7	8
	11,18	10			2	

TABLE 1

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

Item 3sp - STR Results

Y767YN	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
3sp		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23	--	--	19,28.2	7,7
		11,18	10	--	--	2
Y8JG3M	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
3sp		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2
YGTN6H	GlobalFiler™ (STRmix)					
		13,15	19,24	12,13	12,18	8,11
3sp		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2
YJNNRT	GlobalFiler™ (STRmix)					
		13,15	19,24	12,13	12,18	8,11
3sp		9,10	14,14	14,16	17,18	11,11
		15,15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7,7
		11,18	10			2
YKLYR2	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
3sp		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2
YQ9RYV	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
3sp		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2
YQHEPP	GlobalFiler™					
		13,15	19,24	12,13	12,18	8,11
3sp		9,10	14	14,16	17,18	11
		15	12,14	30,35	16,17	X,Y
		22,23			19,28.2	7
		11,18	10			2

TABLE 1

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

Item 3sp - STR Results

YZZ6YU	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7,7	8,8
		11,18	10			2	
Z6UEUE	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	NA
	3sp	9,10	14,14	14,16	17,18	11,11	9,9
		15,15	12,14	30,35	16,17	X,Y	8,10
		22,23	NA	NA	19,28.2	7,7	8,8
		11,18	10	NA	NA	2	
ZG7NEX	PowerPlex® Fusion						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23	8,10	13,14		7	8
		11,18	10				
ZHD9XR	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
ZTWHLK	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
ZWWW8P	GlobalFiler™ (STRmix)						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	
ZYKDDG	GlobalFiler™						
		13,15	19,24	12,13	12,18	8,11	
	3sp	9,10	14	14,16	17,18	11	9
		15	12,14	30,35	16,17	X,Y	8,10
		22,23			19,28.2	7	8
		11,18	10			2	

TABLE 1

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

Item 4 - STR Results

29MXAH	PowerPlex® Fusion 6C (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10	17	18		
29PKTG	GlobalFiler™					
	12,(14),(16.3)	17,(20),(22),24	11,(12),14	15,16,(19)	(9),(11),12	12
4	(7),(10),11	(12),14	13,14	17,(18),(19),23	12	10,(11),12,(14)
	14,(15),(16),20	13,14	29,(31.2)	15,16	X,(Y)	11,12
	21,23,25			(17),(18),22.2,27.2	9,9.3	8,(10),11
	16,17	10			2	
2J4HTE	PowerPlex® Fusion 6C					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10	17	18		
2MYMXH	PowerPlex® Fusion 6C					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
4	[7],[10],11	[12],14	13,14	17,[18],[19],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	11,12
	21,[23],25	11,12,[13]	[5],13,16,[17]	[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	10	17	18		
2UM4RG	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
2VFU33	PowerPlex® 23, GlobalFiler™					
	12,(14,16.3)	17,(20,22),24	11,(12),14	15,16,(19)	(9,11),12	
4	(7,10),11	(12),14	13,14	17,(18,19),23	12	10,(11),12,(14)
	14,(15,16),20	13,14	29,(31.2)	15,(16)	X,(Y)	11,12
	21,(23),25			(17,18),22.2,27.2	9,9.3	8,(10),11
	16,17	(10)			(2)	
2Z9YTK	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,19	[9],[11],12	
4	[7],[10],11	[12],14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,16	X,[Y]	11,12
	21,23,25			[17],[18],22.2,27.2	9,9.3	8,10,11
	16,17	[10]			[2]	

TABLE 1

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

Item 4 - STR Results

3BN68Z	PowerPlex®					
	12,14,16.3	17,20,22,24	11,12,14	15,16,[18],19		
4		12,14	13,14	17,18,19,23		10,11,12,14
	14,15,16,19,20	13,14	29,31.2	15,16	X,Y	
	21,23,25			17,18,[19],22.2,27.2	9,9.3	
	16,17					
3C3PZB	PowerPlex® Fusion 6C					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10	17	18		
3GVWA7	Identifiler® Plus					
		17,20,22,24		15,16,19	9,11,12	
4	7,10,11	12,14			12	10,11,12,14
	14,15,16,20	13,14	29,31.2		X,Y	11,12
	21,23,25				9,9.3	8,10,11
	16,17					
3H8LJB	Identifiler® Plus					
		17,(20),(22),24		15,16,(19)	(9),(11),12	
4	(7),(10),11	(12),14			12	10,(11),12,(14)
	14,(15),(16),20	13,14	29,(31.2)		X,(Y)	11,12
	21,(23),25				9,9.3	8,(10),11
	16,17					
3NUKPP	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
3P7XV8	Identifiler® Plus					
		17,20,22,24		15,16,19	9,11,12	
4	7,10,11	12,14			12	10,11,12,14
	14,15,16,20	13,14	29,31.2		X,Y	11,12
	21,23,25				9,9.3	8,10,11
	16,17					
3WPCHD	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,12,14	15,16,19	[9],[11],12	
4	[7],[10],11	[12],14	13,14	17,[18],[19],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2],[--]	15,16	X,[Y]	11,12
	21,23,25			[17],[18],22.2,27.2	9,9.3	8,10,11,--
	16,17	[10]			[2]	

TABLE 1

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

Item 4 - STR Results

4478Y8	GlobalFiler™					
	12,[14],[16.3]	17,20,22,24	11,12,14	15,16,[19]	[9],11,12	N/A
4	7,10,11	12,14	13,14	17,[18],[19],23	12	10,11,12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,16	X,Y	11,12
	21,23,25	N/A	N/A	17,18,22.2,27.2	9,9.3	8,[10],11
	16,17	10	N/A	N/A	[2]	
44P3HU	PowerPlex® Fusion					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	not tested
4	7,10,11	12,14	13,14	17,18,19,23	12,12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	not tested	9,9.3	8,10,11
	16,17	10	not tested	not tested	not tested	
49FA3N	GlobalFiler™					
	12,12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12,12	
4	[7],[10],11,11	[12],14,14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,29,[31.2]	15,15,[16]	X,X,[Y]	11,12
	21,23,25			[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	10			2	
49VWB6	PowerPlex® Fusion 6C (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10	17	18		
4H7XW6						
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
4HKK8R	PowerPlex® Fusion 5C					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	Not tested
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	Not tested	9,9.3	8,10,11
	16,17	10	Not tested	Not tested	Not tested	
4HNZME	GlobalFiler™					
	12,14,16.3	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
4	[7],[10],11	[12],14	13,14	17,[18],[19],23	12	10,11,12,14
	14,15,16,20	13,14	29,[31.2]	15,16	X,[Y]	11,12
	21,23,25			[17],[18],22.2,27.2	9,9.3	8,10,11
	16,17	10			2	

TABLE 1

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

Item 4 - STR Results

4KPCZ6	Identifiler® Plus	17,20,22,24		15,16,19	9,11,12	
4		7,10,11	12,14		12	10,11,12,14
		14,15,16,20	13,14	29,31.2	X,Y	11,12
		21,23,25			9,9.3	8,10,11
		16,17				
4LJZH2	GlobalFiler™	17,20,22,24	11,12,14	15,16,19	9,11,12	
4		7,10,11	12,14	13,14	17,18,19,23	12
		14,15,16,20	13,14	29,31.2	15,16	X,Y
		21,23,25			17,18,22.2,27.2	9,9.3
		16,17	10			8,10,11
					2	
4LNBHD	GlobalFiler™	17,20,22,24	11,12,14	15,16,19	9,11,12	
4		7,10,11	12,14	13,14	17,18,19,23	12
		14,15,16,20	13,14	29,31.2	15,16	X,Y
		21,23,25			17,18,22.2,27.2	9,9.3
		16,17	10			8,10,11
					2	
4PPAXD	GlobalFiler™ (STRmix)	17,20,22,24	11,12,14	15,16,19	9,11,12	
4		7,10,11	12,14	13,14	17,18,19,23	12
		14,15,16,20	13,14	29,31.2	15,16	X,Y
		21,23,25			17,18,22.2,27.2	9,9.3
		16,17	10			8,10,11
					2	
4QXDJN	GlobalFiler™ (STRmix)	17,20,22,24	11,12,14	15,16,19	9,11,12	
4		7,10,11	12,14	13,14	17,18,19,23	12
		14,15,16,20	13,14	29,31.2	15,16	X,Y
		21,23,25			17,18,22.2,27.2	9,9.3
		16,17	10			8,10,11
					2	
4RPMEB	GlobalFiler™	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12,12	
4		[7],[10],11,11	[12],14,14	13,14	17,[18],[19],23	12,12
		14,[15],[16],20	13,14	29,29,[31.2]	15,15,[16]	X,X,[Y]
		21,[23],25			[17],[18],22.2,27.2	9,9.3
		16,17	[10]			8,[10],11
					[2]	
6AN7LX	GlobalFiler™	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
4		[7],[10],11	[12],14	13,14	17,[18],[19],23	12,12
		14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]
		21,[23],25			[17],[18],22.2,27.2	9,9.3
		16,17	10			8,[10],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

6JVLUQ	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
	[7],[10],11	[12],14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	[11],12
	21,23,25			[17],[18],[22.2],27.2	9,9.3	8,[10],11
16,17	10			2		
6NKEM7	GlobalFiler™					
	12,12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12,12	
	[7],[10],11,11	[12],14,14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,29,[31.2]	15,16	X,X,[Y]	11,12
	21,23,25			[17],[18],[22.2],27.2	9,9.3	8,[10],11
16,17	[10]			[2]		
6NPHGW	Investigator® 24plex (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
16,17	10					
6ZFCPJ	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
16,17	10			2		
78VFBC	GlobalFiler™ (STRmix)					
	12,16.3	17,24	11,12,14	15,16,19	9,11,12	
	11	12,14	13,14	17,19,23	12	10,11,12,14
	14,15,16,20	13,14	29	15,16	X	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
16,17	10			2		
7BUQ8C	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
16,17	10			2		
7DMHGX	PowerPlex® 6C					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
	[7],[10],11	[12],14	13,14	17,[18],[19],23	12	10,11,12,14
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	11,12
	21,23,25	11,12,[13]	[5],13,16,[17]	[17],[18],[22.2],27.2	9,9.3	8,[10],11
16,17	10	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 4 - STR Results

7JM9GE	PowerPlex® Fusion 6C (STRmix 2.6.3)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10	17	18		
7LUJDH	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
7RKUMG	GlobalFiler™ (STRmix)					
	12,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
7Y49GD	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
83ZU8G	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
86LPNU	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
8MKZ8Q	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	

TABLE 1

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

Item 4 - STR Results

8WV2TR	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
8YFAX7	Identifiler® Plus					
		17,20,22,24		15,16,19	9,12	
4	7,11	12,14			12	10,11,12,14
	14,15,16,20	13,14	29,31.2		X,Y	11,12
	21,23,25				9,9.3	8,10,11
	16,17					
92ZMUU	ESI17 Fast (DNA Insight)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,(18),19	Not tested	Not tested
4	Not tested	12,14	13,14	17,18,19,23	Not tested	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	Not tested
	21,23,25	Not tested	Not tested	17,18,22.2,27.2	9,9.3	Not tested
	16,17	Not tested	Not tested		Not tested	
9B9WLT	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
9DG369	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
4	[7],[10],11	[12],14	13,14	17,[18],[19],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,16	X,[Y]	11,12
	21,23,25			[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	10			2	
9F4QG9	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
9NBN3Q	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
4	[7],[10],11	[12],14	13,14	17,[18],[19],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	11,12
	21,[23],25			[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	[10]			[2]	

TABLE 1

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

Item 4 - STR Results

9NW2PJ	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12,12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
9YPPFC	GlobalFiler™					
	12,[14,16.3]	17,20,22,24	11,[12,14]	15,[16,19]	[9,11],12	
4	[7,10],11	[12],14	[13],14	17,[18,19],23	12,12	10,11,12,14
	14,[15,16],20	13,14	29,[31.2]	15,16	X,[Y]	[11],12
	21,23,25			[17,18],22.2,27.2	9,[9.3]	8,[10],11
	16,17	10	17	18	2	
9Z9GGA	PowerPlex® PFusion 6C (STRmix v.2.5.11)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10	17	18		
A6HTEA	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
4	[7],[10],11	[12],14	13,14	17,[18],[19],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,16	X,[Y]	11,12
	21,23,25			[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	10			2	
A8LWHH	PowerPlex® Fusion 6C (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10	17	18		
A9VKGW	PowerPlex® Fusion 5C					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17		9,9.3	8,10,11
	16,17	10				
AELY4H	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	

TABLE 1

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

Item 4 - STR Results

AFW4EL	GlobalFiler™					
	12,(14),(16.3)	17,(20),(22),24	11,(12),14	15,16,(19)	(9),(11),12	
4	(7),(10),11	(12),14	13,14	17,(18),(19),23	12	10,(11),12,(14)
	14,(15),(16),20	13,14	29,(31.2)	15,16	X,(Y)	11,12
	21,23,25			(17),(18),22.2,27.2	9,9.3	8,(10),11
	16,17	(10)			(2)	
AFYQXK	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
AG9R27	PowerPlex® Fusion 6C					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10	17	18		
AHL7MU	PowerPlex® Fusion					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17		9,9.3	8,10,11
	16,17	10				
AQEGWP	PowerPlex® ESI-17 (STRMix for deconvolution)					
	12,12,[14,16.3]	17,[20,22],24	11,[12],14	15,16,[19]		
4		[12],14,14,[15]	[11],13,14	17,[18,19],23		10,[11],12,[14]
	14,[15,16],20	13,14	29,29,[31.2]	15,15,[16]	X,X,[Y]	
	21,[23],25			[17,18,19],22.2,27.2	9,F [9.3]	
	16,17					
ATLXTZ	Identifiler®, PowerPlex® ESI-17 Fast (LiRa3 ([Laboratory] 'in-house' software))					
	12,12,[14,16.3]	17,[20,22],24	11,[12],14	15,16,[19]		
4		[12],14,14	13,14	17,[18,19],23		10,[11],12,[14]
	14,[15,16],20	13,14	29,29,[31.2]	15,15,[16]	X,X,[Y]	
	21,23,25			[17,18],22.2,27.2	9,9.3	
	16,17					
AUFLCV	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	

TABLE 1

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

Item 4 - STR Results

B28NL7	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
B7QPY6	PowerPlex® Fusion 6C					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
4	[7],[10],11	[12],14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	11,12
	21,[23],25	11,12,[13]	[5],13,16,[17]	[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	10	17	18		
B8XWB7	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
BAQMLQ	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
BJA4CC	PowerPlex® Fusion					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
4	[7],11	[12],14	13,14	17,[18],[19],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	11,12
	21,[23],25	11,12,[13]	[5],13,16,[17]		9,9.3	8,[10],11
	16,17	10				
BR62ZZ	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
BTGZVA	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	

TABLE 1

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

Item 4 - STR Results

BUAR6U	PowerPlex® Fusion					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17		9,9.3	8,10,11
	16,17	10				
BZFKZQ	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
C8F8MJ	Investigator® 24plex					
	12,12,(14,16.3)	17,(20,22),24	11,(12),14	15,16,(19)	(9,11),12,12	
4	(7,10),11,11	(12),14,14	13,14	17,(18,19),23	12,12	10,(11),12,(14)
	14,(15,16),20	13,14	29,29,(31.2)	15,15,(16)	X,X,(Y)	11,12
	21,(23),25			(17,18),22.2,27.2	9,9.3	8,(10),11
	16,17	(10)				
CBEHJJ	NGM SElect					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]		
4		[12],14	13,14	17,[18],[19],23		10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	
	21,[23],25			[17],[18],22.2,27.2	9,9.3	
	16,17					
CFBXG8	PowerPlex® Fusion 6C (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10	17	18		
CK6YEF	GlobalFiler™					
	12,12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12,12	
4	[7],[10],11,11	[12],14,14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,29,[31.2]	15,15,[16]	X,X,[Y]	11,12
	21,[23],25			[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	10			2	
CNJY9L	PowerPlex® Fusion (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17		9,9.3	8,10,11
	16,17	10				

TABLE 1

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

Item 4 - STR Results

CQ7DXV	PowerPlex® Fusion 6C (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10	17	18		
CYMUP6	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
D3GBF4	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
D626C6	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
D8PQQD	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12,12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
DC72ZB	GlobalFiler™ (STRmix)					
	12,16.3	17,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
DH89JK	GlobalFiler™					
	12,[14,16.3]	17,[20,22],24	11,[12],14	15,16,[19]	[9,11],12	
4	[7,10],11	[12],14	13,14	17,[18,19],23	12	10,[11],12,[14]
	14,[15,16],20	13,14	29,[31.2]	15,[16]	X,Y	11,12
	21,[23],25			[17,18],22.2,27.2	9,9.3	8,[10],11
	16,17	10			2	

TABLE 1

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

Item 4 - STR Results

DJ773T	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
DVUH6P	PowerPlex® Fusion 5C					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17		9,9.3	8,10,11
	16,17	10				
E9ZXME	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
EBP2KT	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
EDX6HB	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
EFFG38	PowerPlex® 5C					
	12,14,16.3	17,20,24	11,12,14	15,16,19	9,11,12	--
4	7,11	14	13,14	17,18,19,23	12	10,11,12,14
	14,15,20	13,14	29	15,16	X,Y	11,12
	21,23,25	11,12	5,13,16,17	--	9,9.3	8,11
	16,17	--	--	--	--	
EHNNA8	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	

TABLE 1

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

Item 4 - STR Results

EUFDR8	PowerPlex® ES17 FAST						
	12,14,16.3	17,20,22,24	11,12,14	15,16,19			
	4	12,14	13,14	17,18,19,23		10,11,12,14	
	14,15,16,20	13,14	29,31.2	15,16	X,Y		
	21,23,25			17,18,22.2,27.2	9,9.3		
EYC3PK	GlobalFiler™ (STRmix v2.6.3.04)						
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12		
	4	[7],[10],11	[12],14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	11,12	
	21,[23],25			[17],[18],22.2,27.2	9,9.3	8,[10],11	
16,17	10			2			
F3UCK4	PowerPlex® Fusion						
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12		
	4	[7],11	[12],14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	11,12	
	21,[23],25	11,12,[13]	[5],13,16,[17]		9,9.3	8,[10],11	
16,17	[10]						
F832GH	PowerPlex® Fusion (STRmix)						
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12		
	4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12	
	21,23,25	11,12,13	5,13,16,17		9,9.3	8,10,11	
16,17	10						
FFD43H	PowerPlex® Fusion 5C (STRmix)						
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12		
	4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12	
	21,23,25	11,12,13	5,13,16,17		9,9.3	8,10,11	
16,17	10						
FL6D9A	GlobalFiler™ (STRmix)						
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12		
	4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12	
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11	
16,17	10			2			
G39A6E	GlobalFiler™						
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12		
	4	[7],[10],11	[12],14	13,14	17,[18],[19],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	11,12	
	21,23,25			[17],[18],22.2,27.2	9,9.3	8,[10],11	
16,17	[10]			[2]			

TABLE 1

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

Item 4 - STR Results

G7RBD8	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
G8HMMD	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
G9TMND	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
4	[7],[10],11	[12],14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	11,12
	21,[23],25			[17],[18],22.2,27.2	9,[9.3]	8,[10],[11]
	16,17	10			2	
GAMDUT	Identifiler® Plus					
		17,20,22,24		15,16,19	9,11,12	
4	7,10,11	12,14			12	10,11,12,14
	14,15,16,20	13,14	29,31.2		X,Y	11,12
	21,23,25				9,9.3	8,10,11
	16,17					
GBF2CN	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
GMUYJD	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
4	[7],[10],11	[12],14	13,14	17,[19],23	12,12	10,12
	14,[15],[16],20	13,14	29,29	15,[16]	X,X	11,12
	21,[23],25			[17],[18],22.2,27.2	9,9.3	8,11
	16,17	NR			NR	
GMXEXY	GlobalFiler™					
	12,12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12,12	
4	[7],[10],11,11	[12],14,14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,29,[31.2]	15,15,[16]	X,X,[X],[Y]	11,12
	21,[23],25			[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	[10]			[2]	

TABLE 1

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

Item 4 - STR Results

GPV6UC	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
GQDAEV	PowerPlex® Fusion 6C					
	12,12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12,12	
4	[7],[10],11,11	[12],14,14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,29,[31.2]	15,15,[16]	X,X,[Y]	11,12
	21,[23],25	11,12,[13]	[5],13,16,[17]	[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	[10]	[17]	[18]		
GUQW4U	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
GV3TCK	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
GWUWXZ	PowerPlex®, GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
HDXQ6Y	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
HLWY6Y	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	

TABLE 1

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

Item 4 - STR Results

HWH4CX	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
	[7],[10],11	[12],14	13,14	17,[18],[19],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,16	X,[Y]	11,12
	21,23,25			[17],[18],22.2,27.2	9,9.3	8,10,11
16,17	10			2		
HX8L2C	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
	[7],[10],11	[12],14	13,14	17,[18],[19],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	11,12
	21,[23],25			[17],[18],22.2,27.2	9,9.3	8,[10],11
16,17	[10]			[2]		
JAWYFY	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
16,17	10			2		
JBDW9Y	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
16,17	10			2		
JDGTDZ	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
16,17	10			2		
JJ4MJX	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
	[7],[10],11	[12],14	13,14	17,[18],[19],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,16	X,[Y]	11,12
	21,23,25			[17],[18],22.2,27.2	9,9.3	8,[10],11
16,17	10			2		
JUB87Z	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
	[7],[10],11	[12],14	13,14	17,[18],[19],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,16	X,[Y]	11,12
	21,23,25			[17],[18],22.2,27.2	9,9.3	8,[10],11
16,17	10			2		

TABLE 1

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

Item 4 - STR Results

K3CYZM	GlobalFiler™ (Genemapper ID-x)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10		2		
KADDN9	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],[14]	15,16,[19]	[9],[11],12	
	[7],[10],11	[12],14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	11,12
	21,[23],25			[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	10		2		
KEMMWQ	GlobalFiler™					
	12,12,[14],[16.3]	17,[20],[22],24	11,12,14	15,16,[19]	[9],[11],12,12	
	[7],[10],11,11	[12],14,14,[14]	13,14	17,18,19,23	12,12,[12],[12]	10,11,12,14
	14,15,16,20	13,14	29,29,[29],[31.2]	15,16	X,X,[Y]	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,[10],11
	16,17	[10]		[2]		
KKEP6W	PowerPlex® Fusion 6C					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
	[7],[10],11	[12],14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	11,12
	21,[23],25	11,12,[13]	[5],13,16,[17]	[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	10	17	18		
KNCBRT	Identifiler® Plus					
		17,20,22,24		15,16,19	9,11,12	
	7,10,11	12,14			12	10,11,12,14
	14,15,16,20	13,14	29,31.2		X,Y	11,12
	21,23,25				9,9.3	8,10,11
	16,17					
L2GZ2E	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10		2		
LFCGQC	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10		2		

TABLE 1

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

Item 4 - STR Results

LMX49W	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
	[7],[10],11	[12],14	13,14	17,[18],[19],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,16	X,[Y]	11,12
	21,23,25			[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	10		2		
LNVFPX	PowerPlex® Fusion 6C (STRmix V2.5.11)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10	17	18		
M29FQG	PowerPlex® Fusion					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17		9,9.3	8,10,11
	16,17	10				
M8HKPV	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
	[7],[10],11	[12],14	13,14	17,[18],[19],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,16	X,[Y]	11,12
	21,23,25			[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	10		2		
MH3VYM	GlobalFiler™					
	12,[14],[16.3]	17,[20],22,24	11,[12],14	15,16,[19]	[9],11,12	
	[7],[10],11	12,14	13,14	17,[18],[19],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,16	X,[Y]	11,12
	21,23,25			[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	[10]		[2]		
MNRBRZ	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10		2		
MQC88D	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10		2		

TABLE 1

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

Item 4 - STR Results

MTGYX7	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
MXTWUT	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
N4CDTW	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12,12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
N8X6VQ	GlobalFiler™					
	12,12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12,12	N/A
	[7],[10],11,11	[12],14,14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,29,[31.2]	15,16	X,X,[Y]	11,12
	21,[23],25	N/A	N/A	[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	[10]	N/A	N/A	[2]	
NDMHXZ	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
NFQF6L	GlobalFiler™					
	12,12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12,12	
	[7],[10],11,11	[12],14,14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,29,[31.2]	15,15,[16]	X,X,[Y]	11,12
	21,[23],25			[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	[10]			[2]	
NJQPBH	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	

TABLE 1

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

Item 4 - STR Results

NYK237	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10		2		
NZUDF2	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10		2		
P4URQX	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10		2		
P933VL	Investigator® 24plex QS					
	12,[14]	17,24	11,[12],14	15,16	[9],[11],12	N/A
	[7],[10],11	[12],14	13,14	17,[18],23	12,12	10,[11],12,[14]
	14,[15],20	13,14	29,[31.2]	15,[16]	X,[Y]	11,12
	21,[23],25	N/A	N/A	[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	10	N/A	N/A	N/A	
PFZYCW	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10		2		
PPXH4R	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10		2		
PRJBU2	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,12	
	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10		2		

TABLE 1

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

Item 4 - STR Results

PTYJ8V	GlobalFiler™						
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12		
	4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12	
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11	
	16,17	10			2		
QB4MXC	ESI 17 FAST						
	12,14,16.3	17,20,22,24	11,12,14	15,16,19			
	4	7,10,11	12,14	13,14	17,18,19,23		10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y		
	21,23,25			17,18,22.2,27.2	9,9.3		
	16,17						
QB9ZNT	PowerPlex® Fusion 6C (STRmix)						
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12		
	4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12	
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11	
	16,17	10	17	18			
QFJ3N4	GlobalFiler™						
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12		
	4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12	
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11	
	16,17	10			2		
QFWP2C	GlobalFiler™						
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12		
	4	[7],[10],11	[12],14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	11,12	
	21,[23],25			[17],[18],22.2,27.2	9,9.3	8,[10],11	
	16,17	[10]		[2]			
QJW3KU	GlobalFiler™						
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12		
	4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12	
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11	
	16,17	10			2		
QKYLTR	PowerPlex® Fusion 6C						
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12		
	4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12	
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11	
	16,17	10	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 4 - STR Results

QREB9R	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
QTMJE6	PowerPlex® PowerPlex® Fusion					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17		9,9.3	8,10,11
	16,17	10				
QU2QX2	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
QUY77R	GlobalFiler™					
	12,14,16.3	17,20,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
QVCRJZ	GlobalFiler™ (STRmix)					
	12,14	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17				2	
QYVRXU	PowerPlex® Fusion 5C					
	12,[14],[16.3]	17,20,22,24	11,12,14	15,16,[19]	[9],[11],12	
4	[7],[10],11	[12],14	13,14	17,18,19,23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	11,12
	21,23,25	11,12,[13]	5,13,16,17		9,9.3	8,10,11
	16,17	[10]				
R2W63Y	GlobalFiler™					
	12,12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12,12	
4	[7],[10],11,11	[12],14,14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,29,[31.2]	15,15,[16]	X,X,[Y]	11,12
	21,23,25			[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	10			2	

TABLE 1

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

Item 4 - STR Results

R7CQWR	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
R9YDPE	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
RB43RN	PowerPlex® Fusion 6C					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10	17	18		
RTGQX9	Investigator® 24plex (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10				
RZ7W3W	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
RZNVA3	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
4	[7],[10],11	[12],14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	[11],12
	21,[23],25			[17],[18],22.2,27.2	9,9.3	8,[10],[11]
	16,17	10			2	
T2A26J	Identifiler® Plus					
		17,20,22,24		15,16,19	9,11,12	
4	7,10,11	12,14			12	10,11,12,14
	14,15,16,20	13,14	29,31.2		X,Y	11,12
	21,23,25				9,9.3	8,10,11
	16,17					

TABLE 1

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

Item 4 - STR Results

T2TZ7M	PowerPlex® Fusion 6C					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10	17	18		
TJ8JT	GlobalFiler™					
	12,[14],[16.3]	17,20,22,24	11,[12],14	15,16,[19]	[9],[11],12	
4	[7],[10],11	[12],14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,16	X,[Y]	11,12
	21,23,25			[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	[10]			[2]	
TJTXLC	PowerPlex® Fusion 5C					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17		9,9.3	8,10,11
	16,17	10				
TR2QBY	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
TUF67M	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
U3GXPD	GlobalFiler™ (TrueAllele)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
UA78MQ	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	

TABLE 1

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

Item 4 - STR Results

UF8UQC	GlobalFiler™ (Genemapper ID-x)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
UK3NMR	GlobalFiler™					
	12,[14,16.3]	17,[20,22],24	11,[12],14	15,16,[19]	[9,11],12	
4	[7,10],11	[12],14	13,14	17,[18,19],23	12	10,[11],12,[14]
	14,[15,16],20	13,14	29,[31.2]	15,16	X,[Y]	11,12
	21,23,25			[17,18],22.2,27.2	9,9.3	8,[10],11
	16,17	[10]			[2]	
V2799M	PowerPlex® Fusion 6C (STRmix v2.5.11)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10	17	18		
V47QZM	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
V8QKWN	PowerPlex® Fusion SYSTEM (M-FISys 11.09)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,18,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12,12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	13,16,17		9,9.3	8,10,11
	14,16,17,24	10				
V8T7NX	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
VA37XB	GlobalFiler™					
	12,12,[14,16.3]	17,[20,22],24	11,[12],14	15,16,[19]	[9,11],12,12	
4	[7,10],11,11	[12],14,14	13,14	17,[18,19],23	12,12	10,[11],12,[14]
	14,[15,16],20	13,14	29,29,[31.2]	15,15,[16]	X,X,[Y]	11,12
	NR,NR			[17,18],22.2,27.2	9,9.3	8,[10],11
	16,17	[10]			[2]	

TABLE 1

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

Item 4 - STR Results

VDJF32	PowerPlex® Fusion					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	NT
4	[7],[10],11	[12],14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	11,12
	21,[23],25	11,12,[13]	[5],13,16,[17]	NT	9,9.3	8,[10],11
	16,17	[10]	NT	NT	NT	
VPEKGU	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,11
	16,17	10			2	
VQL3BJ	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,[12],14	15,16,19	[9],11,12	
4	[7],[10],11	12,14	13,14	17,[18],19,23	12	10,11,12,[14]
	14,15,16,20	13,14	29,[31.2]	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
VX8XCM	PowerPlex® Fusion 6C (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10	17	18		
W2J68Z	PowerPlex® 5C (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17		9,9.3	8,10,11
	16,17	10				
W2NHWG	PowerPlex® PP21 (STRmix)					
	12,14,16.3	17,20,22,24		15,16,19	9,12	11,13
4	7,10,11	12,14		17,18,19,23	12,12	10,11,12,14
	14,15,16,20	13,14	29,31.2		X,Y	11,12
	21,23,25	11,12,13	5,13,16,17		9,9.3	8,10,11
	16,17					
W4ADDU	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	

TABLE 1

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

Item 4 - STR Results

WGFHNG	PowerPlex® ESX 16 Fast					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]		
4		[12],14	13,14	17,[18],[19],23		10,12
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	
	21,23,25				9,9.3	
	16,17					
WYMEW	PowerPlex® Fusion 6C (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10	17	18		
WT3TRD	Investigator® 24plex QS					
	12,[14],[16.3]	17,24	11,[12],14	15,16,[19]	[9],[11],12	n/a
4	[7],[10],11	[12],14	13,14	17,[18],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	11,12
	21,[23],25	n/a	n/a	[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	10	n/a	n/a	n/a	
WZ49EZ	PowerPlex® Fusion 5C					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17		9,9.3	8,10,11
	16,17	10				
XDNP4X	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
4	[7],[10],11	[12],14	13,14	17,[18],[19],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	11,12
	21,[23],25			[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	[10]			[2]	
XH4F9T	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
XXZMDL	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
4	[7],[10],11	[12],14	13,14	17,[18],[19],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,16	X,[Y]	11,12
	21,23,25			[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	10			2	

TABLE 1

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

Item 4 - STR Results

Y767YN	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,19	[9],[11],12	--
4	[7],[10],11	[12],14	13,14	17,[18],[19],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,16	X,[Y]	11,12
	21,23,25	--	--	[17],[18],22.2,27.2	9,9.3	8,10,11
	16,17	[10]	--	--	[2]	
Y8JG3M	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
YGTN6H	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
YJNNRT	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
YKLYR2	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
4	[7],[10],11	[12],14	13,14	17,[18],[19],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,[31.2]	15,[16]	X,[Y]	11,12
	21,[23],25			[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	[10]			[2]	
YQ9RYV	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
YQHEPP	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	

TABLE 1

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

Item 4 - STR Results

YTZP9M	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12,12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
YU9Y2J	GlobalFiler™					
	12,14,16.3	17,22,24	11,12,14	15,16,19	12	
4	7,11	12,14	13,14	17,18,23	12	10,11,12,14
	14,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
YZZ6YU	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
Z6UEUE	GlobalFiler™					
	12,12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12,12	NA
4	[7],[10],11,11	[12],14,14	13,14	17,[18],[19],23	12,12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,29,[31.2]	15,16	X,[Y]	11,12
	21,[23],25	NA	NA	[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	[10]	NA	NA	[2]	
ZG7NEX	PowerPlex® Fusion					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17		9,9.3	8,10,11
	16,17	10				
ZHD9XR	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
ZTWHLK	GlobalFiler™					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	

TABLE 1

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

Item 4 - STR Results

ZWWW8P	GlobalFiler™ (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,12	
4	7,10,11	12,14	13,14	17,18,23	12	10,11,12,14
	14,15,16,20	13,14	29	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10			2	
ZYKDDG	GlobalFiler™					
	12,(14),(16.3)	17,(20),(22),24	11,(12),14	15,16,(19)	9,11,12	
4	7,10,11	(12),14	13,14	17,(18),(19),23	12	10,(11),12,(14)
	14,(15),(16),20	13,14	29,(31.2)	15,16	X,(Y)	11,12
	21,23,25			(17),(18),22.2,27.2	9,9.3	8,10,11
	16,17	10			2	

TABLE 1

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

Item 4e - STR Results

2JN9W8	PowerPlex® Fusion 6C (STRmix)					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4e	7,10,11	12,14	13,14	17,18,19,23	12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10	17	18		
8HEA4K	GlobalFiler™ IQC					
	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4e	7,10,11	12,14	13,14	17,18,19,23	12,12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10	17	18	2	
BJELAB	GlobalFiler™					
	12,[14,16.3]	17,[20,22],24	11,[12],14	15,16,[19]	[9,11],12	
4e	[7,10],11	[12],14	13,14	17,[18,19],23	12	10,[11],12,[14]
	14,[15,16],20	13,14	29,[31.2]	15,16	X,[Y]	11,12
	21,23,25			[17,18],22.2,27.2	9,9.3	8,[10],11
	16,17	[10]			[2]	
J3EER2	Identifiler®					
4e						
NGGTJX	GlobalFiler™					
	12,[14],[16.3]	17,[20],[22],24	11,[12],14	15,16,[19]	[9],[11],12	
4e	[7],[10],11	[12],14	13,14	17,[18],[19],23	12	10,[11],12,[14]
	14,[15],[16],20	13,14	29,31.2	15,[16]	X,[Y]	11,12
	21,[23],25			[17],[18],22.2,27.2	9,9.3	8,[10],11
	16,17	[10]			[2]	

TABLE 1

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

Item 4sp - STR Results

2JN9W8 PowerPlex® Fusion 6C (STRmix)

4sp	[Redacted]					
	[Redacted]					

8HEA4K GlobalFiler™ IQC

	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	
4sp	7,10,11	12,14	13,14	17,18,19,23	12,12	10,11,12,14
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12
	21,23,25			17,18,22.2,27.2	9,9.3	8,10,11
	16,17	10	17	18	2	

BJELAB GlobalFiler™

	12	--	11,14	15	12	
4sp	--	14	14	--	--	--
	--	--	--	15,16	X	--
	--			--	--	--
	--	--			--	

J3EER2 Identifiler®

		,		*,*	*,*	
4sp	*,*	14,14			*,*	*,*
	,	*,*	*,*		*,*	*,*
	,				*,*	*,*
	,					

NGGTJX GlobalFiler™

4sp	[Redacted]					
	[Redacted]					

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

4478Y8	Yfiler™								
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8HEA4K	Yfiler™ Plus								
	//	//	//	//	//	//	//	//	//
1	//	//	//	//	//	//	//	//	//
	//	//		//	//	//	//		//
EFFG38	PowerPlex® Y 23								
	--	--	--	--	--	--	--	--	--
1	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--

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									
29MXAH	Yfiler™								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
2MYMXH	Yfiler™								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
2UM4RG	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
2VFU33	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
3GVWA7	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
3NUKPP	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
3P7XV8	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
4478Y8	Yfiler™								
	N/A	14	17,17	13	30	21	10	11	13
2	14	11	13	21	N/A	15	20	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
44P3HU	PowerPlex® Y 23								
	not tested	14	17	13	30	21	10	11	13
2	14	11	13	21	not tested	15	20	not tested	25
	not tested	12	12	19	17	not tested	22	13	11
49FA3N	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
4KPCZ6	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
4QXDJN	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 2 - YSTR Results									
4RPMEB	Yfiler™								
	N/A	14	17,17	13	30	21	10	11	13
2	14	11	13	21	N/A	15	20	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
6AN7LX	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
6JVLUQ	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
6NKEM7	Yfiler™								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
6NPHGW	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
6ZFCPJ	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
78VFBC	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
7LUJDH	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
7RKUMG	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
7Y49GD	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
83ZU8G	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
86LPNU	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 2 - YSTR Results									
8HEA4K	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
8MKZ8Q	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
8WV2TR	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
8YFAX7	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
9B9WLT	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
							22		11
9DG369	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
9NBN3Q	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
9NW2PJ	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
9YPPFC	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
9Z9GGA	Yfiler™								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
							22		11
A9VKGW	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
AELY4H	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 2 - YSTR Results									
AFW4EL	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
AFYQXK	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
AHL7MU	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
B28NL7		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
B8XWB7	PowerPlex® Y 23								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
BAQMLQ	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
							22		11
BTGZVA	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
BUAR6U	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
BZFKZQ	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
							22		11
C8F8MJ	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
CFBXG8	Yfiler™								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
							22		11
CK6YEF	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	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									
D626C6	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21	15	20	25		
		12	12	19	17	22	13	11	
D8PQQD	37,38								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
		41	12	19	17	16	22		11
DC72ZB	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21	15	20			
						22			11
DH89JK	Yfiler™ Plus								
		37,38	14	17	13	30	21	10	11
2	14	11	13	21	32	15	20	10	25
		41	12	19	17	16	22		11
DJ773T	Yfiler™ Plus								
		37,38	14	17	13	30	21	10	11
2	14	11	13	21	32	15	20	10	25
		41	12	19	17	16	22		11
DVUH6P	Yfiler™ Plus								
		37,38	14	17,17	13	30	21	10	11
2	14	11	13	21	32	15	20	10	25
		41	12	19	17	16	22		11
EBP2KT	Yfiler™ Plus								
		37,38	14	17	13	30	21	10	11
2	14	11	13	21	32	15	20	10	25
		41	12	19	17	16	22		11
EDX6HB	Yfiler™ Plus								
		37,38	14	17	13	30	21	10	11
2	14	11	13	21	32	15	20	10	25
		41	12	19	17	16	22		11
EFFG38	PowerPlex® Y 23								
	--	14	17	13	30	21	10	11	13
2	14	11	13	21	--	15	20	--	25
	--	12	12	19	17	--	22	13	11
EHNNA8	Yfiler™ Plus								
		37,38	14	17	13	30	21	10	11
2	14	11	13	21	32	15	20	10	25
		41	12	19	17	16	22		11
EYC3PK	Yfiler™ Plus								
		37,38	14	17,17	13	30	21	10	11
2	14	11	13	21	32	15	20	10	25
		41	12	19	17	16	22		11
FL6D9A	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21	15	20			
						22			11

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 2 - YSTR Results									
G7RBD8	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
GAMDUT	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
GMXEXY	Yfiler™								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
GPV6UC	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
GV3TCK	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
GWUWXZ	Yfiler™								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
HDXQ6Y	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
HLWY6Y	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
HX8L2C	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
JD2LEX	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
JDGTDZ	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
JJ4MJX	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 2 - YSTR Results									
K3CYZM	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
KEMMWQ	Yfiler™								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
KNCBRT	Yfiler™								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
L2GZ2E	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
LNVPFX	Yfiler™								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
M29FQG	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
MH3VYM	Yfiler™								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
MNRBRZ	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
MQC88D	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
MXTWUT	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
N8X6VQ	Yfiler™								
	N/A	14	17,17	13	30	21	10	11	13
2	14	11	13	21	N/A	15	20	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
NDMHXZ	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 2 - YSTR Results									
NFQF6L	Yfiler™								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		11
							22		
NJQPBH	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
NYK237	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
NZUDF2	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		11
							22		
P4URQX	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
PRJBU2	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		11
							22		
PTYJ8V	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
QB9ZNT	Yfiler™								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		11
							22		
QFWP2C	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
QJW3KU	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
QKYLTR	Yfiler™								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		11
							22		
QTMJE6	PowerPlex® 23								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	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									
QUY77R	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
QVCRJZ	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
QYVRXU	PowerPlex® Y 23								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
R2W63Y	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
R7CQWR	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
R9YDPE	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
RTGQX9	Yfiler™								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
RZ7W3W	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
T2A26J	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
TJTXLC	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
TUF67M	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
UA78MQ	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 2 - YSTR Results									
UF8UQC	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
V2799M	Yfiler™								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
V47QZM	PowerPlex® Y 23								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
V8QKWN	PowerPlex® Y 23								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
V8T7NX	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
VPEKGU	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
VQL3BJ	Yfiler™								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
VX8XCM	Yfiler™								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
W4ADDU	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11
WMYMEW	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
WZ49EZ	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
Y8JG3M	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 2 - YSTR Results									
YKLYR2	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
YQ9RYV	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
YQHEPP	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
YTZP9M	Yfiler™ Plus.								
	37,38	14	17,17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
YU9Y2J	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
2	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
YZZ6YU	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
Z6UEUE	Yfiler™								
	NA	14	17,17	13	30	21	10	11	13
2	14	11	13	21	NA	15	20	NA	NA
	NA	NA	NA	NA	NA	NA	22	NA	11
ZG7NEX	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
ZHD9XR	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
ZTWHLK	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
2	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
ZWVW8P	Yfiler™								
		14	17	13	30	21	10	11	13
2	14	11	13	21		15	20		
							22		11

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3 - YSTR Results									
2MYMXH		14	17,17	13	30	21	10	11	13
3	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
B28NL7	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
3	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
D626C6	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
3	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
GWUWXZ	PowerPlex® Y								
		14	17,17	13	30	21	10	11	13
3	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
HDXQ6Y	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
3	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
JDGTDZ	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
3	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
N4CDTW	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
QFWP2C	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
3	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
QUY77R		14	17,17	13	30	21	10	11	13
3	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
R9YDPE	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
T2A26J	Yfiler™								
		14	17	13	30	21	10	11	13
3	14	11	13	21		15	20		
							22		11
V8QKWN	PowerPlex® Y 23								
		14	17	13	30	21	10	11	13
3	14	11	13	21		15	20		25
		12	12	19	17		22	13	11

TABLE 2

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

Item 3 - YSTR Results

YTZP9M	Yfiler™ Plus.								
	37,38	14	17,17	13	30	21	10	11	13
3	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
YU9Y2J	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
3	14	11	13	21		15	20		25
		12	12	19	17		22	13	11

TABLE 2

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

Item 3e - YSTR Results

29MXAH	Yfiler™								
3e	[REDACTED]								
29PKTG	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
2J4HTE	Yfiler™								
3e	[REDACTED]								
2UM4RG	Yfiler™								
3e	[REDACTED]								
2VFU33	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
3e	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
3GVWA7	Yfiler™								
		14	17	13	30	21	10	11	13
3e	14	11	13	21		15	20		
							22		11
3NUKPP	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
3P7XV8	Yfiler™								
3e	-	-	-	-	-	-	-	-	-
4478Y8	Yfiler™								
	N/A	14	17,17	13	30	21	10	11	13
3e	14	11	13	21	N/A	15	20	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
44P3HU	PowerPlex® Y 23								
	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested
3e	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
4KPCZ6	Yfiler™								
		14	17	13	30	21	10	11	13
3e	14	11	13	21		15	20		
							22		11
4QXDJN	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3e - YSTR Results									
4RPMEB	Yfiler™								
	N/A	14	17,17	13	30	21	10	11	13
3e	14	11	13	21	N/A	15	20	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
6AN7LX	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
6JVLUQ	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
6NKEM7	Yfiler™								
		14	17,17	13	30	21	10	11	13
3e	14	11	13	21		15	20		
							22		11
6NPHGW	Yfiler™								
		14	17	13	30	21	10	11	13
3e	14	11	13	21		15	20		
							22		11
6ZFCPJ	Yfiler™								
3e									
78VFBC	Yfiler™								
3e									
7LUJDH	Yfiler™								
3e									
7RKUMG	Yfiler™								
3e									
7Y49GD	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
83ZU8G	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
86LPNU	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3e - YSTR Results									
8HEA4K	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
8MKZ8Q	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
8WV2TR	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
8YFAX7	PowerPlex® Y 23								
3e									
9B9WLT	Yfiler™								
3e									
9DG369	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
9NBN3Q	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
9NW2PJ	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
9YPPFC	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
9Z9GGA	Yfiler™								
		14	17,17	13	30	21	10	11	13
3e	14	11	13	21		15	20		
							22		11
A9VKGW	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
AELY4H	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11

TABLE 2

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

Item 3e - YSTR Results

AFW4EL	Yfiler™ Plus								
3e	[REDACTED]								
AFYQXK	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
AG9R27	Yfiler™								
3e	[REDACTED]								
AHL7MU	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
B8XWB7	PowerPlex® Y 23								
		14	17	13	30	21	10	11	13
3e	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
BAQMLQ	Yfiler™								
3e	[REDACTED]								
BTGZVA	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
BUAR6U	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
BZFKZQ	Yfiler™								
3e	[REDACTED]								
C8F8MJ	Yfiler™ Plus								
3e	[REDACTED]								
CFBXG8	Yfiler™								
3e	[REDACTED]								
DC72ZB	Yfiler™								
3e	[REDACTED]								

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3e - YSTR Results									
DH89JK	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
DJ773T	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
DVUH6P	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
EBP2KT	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
EDX6HB	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
EFFG38	PowerPlex® Y 23								
		14	17	13	30	21	10	11	13
3e	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
EHNNA8	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
EYC3PK	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
FL6D9A	Yfiler™								
3e									
G7RBD8	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
GAMDUT	Yfiler™								
		14	17	13	30	21	10	11	13
3e	14	11	13	21		15	20		
							22		11
GMXEXY	Yfiler™								
		14	17,17	13	30	21	10	11	13
3e	14	11	13	21		15	20		
							22		11

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3e - YSTR Results									
GPV6UC	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
GV3TCK	Yfiler™								
3e									
HLWY6Y	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
JJ4MJX	Yfiler™ Plus								
3e									
JUB87Z	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
K3CYZM	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
KEMMWQ	Yfiler™								
		14	17,17	13	30	21	10	11	13
3e	14	11	13	21		15	20		
							22		11
KNCBRT	PowerPlex® Y 23								
3e									
L2GZ2E	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
LNVPFX	Yfiler™								
3e									
M29FQG	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
MH3VYM	Yfiler™								
		14	17,17	13	30	21	10	11	13
3e	14	11	13	21		15	20		
							22		11

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3e - YSTR Results									
MNRBRZ	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
MQC88D	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
MXTWUT	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
N8X6VQ	Yfiler™								
	N/A	14	17,17	13	30	21	10	11	13
3e	14	11	13	21	N/A	15	20	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
NDMHXZ	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
NFQF6L	Yfiler™								
		14	17,17	13	30	21	10	11	13
3e	14	11	13	21		15	20		
							22		11
NJQPBH	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
NYK237	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
NZUDF2	Yfiler™								
3e									
P4URQX	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
PRJBU2	Yfiler™								
3e									
PTYJ8V	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11

TABLE 2

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

Item 3e - YSTR Results

QB9ZNT	Yfiler™								
3e	[Redacted]								
QJW3KU	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
QKYLTR	Yfiler™								
								11	
3e	14	11	13	21					
							22		11
QTMJE6	PowerPlex® 23								
3e	[Redacted]								
QVCRJZ	Yfiler™								
3e	[Redacted]								
QYVRXU	PowerPlex® Y 23								
		14	17	13	30	21	10	11	13
3e	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
R7CQWR	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
RB43RN	Yfiler™								
3e	[Redacted]								
RTGQX9	Yfiler™								
		14	17,17	13	30	21	10	11	13
3e	14	11	13	21		15	20		
							22		11
RZ7W3W	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
T2TZ7M	Yfiler™								
3e	[Redacted]								
TJTXLC	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11

TABLE 2

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

Item 3e - YSTR Results

TUF67M	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
UA78MQ	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
UF8UQC	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
V2799M	Yfiler™								
3e									
V47QZM	PowerPlex® Y 23								
		14	17	13	30	21	10	11	13
3e	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
V8T7NX	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
VPEKGU	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
VQL3BJ	Yfiler™								
		14	17,17	13	30	21	10	11	13
3e	14	11	13	21		15	20		25
							22		11
VX8XCM	Yfiler™								
3e									
W4ADDU	Yfiler™								
3e									
WMYMEW	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
3e	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
WZ49EZ	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11

TABLE 2

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

Item 3e - YSTR Results

Y8JG3M	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
YKLYR2	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
YQ9RYV	PowerPlex® Y 23								
3e									
YQHEPP	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
YZZ6YU	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
Z6UEUE	Yfiler™								
	NA	14	17,17	13	30	21	10	11	13
3e	14	11	13	21	NA	15	20	NA	NA
	NA	NA	NA	NA	NA	NA	22	NA	11
ZG7NEX	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
ZHD9XR	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
ZTWHLK	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3e	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
ZWWW8P	Yfiler™								
3e									

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3sp - YSTR Results									
29MXAH	Yfiler™								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		11
							22		
29PKTG	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
2J4HTE	Yfiler™								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
2UM4RG	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
2VFU33	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
3GVWA7	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
3NUKPP	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
3P7XV8	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
4478Y8	Yfiler™								
	N/A	14	17,17	13	30	21	10	11	13
3sp	14	11	13	21	N/A	15	20	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
44P3HU	PowerPlex® Y 23								
	not tested	14	17	13	30	21	10	11	13
3sp	14	11	13	21	not tested	15	20	not tested	25
	not tested	12	12	19	17	not tested	22	13	11
4KPCZ6	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
4QXDJN	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3sp - YSTR Results									
4RPMEB	Yfiler™								
	N/A	14	17,17	13	30	21	10	11	13
3sp	14	11	13	21	N/A	15	20	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
6AN7LX	Yfiler™ Plus								
3sp									
6JVLUQ	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
6NKEM7	Yfiler™								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
6NPHGW	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
6ZFCPJ	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
78VFBC	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
7LUJDH	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
7RKUMG	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
7Y49GD	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
83ZU8G	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
86LPNU	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		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 3sp - YSTR Results									
8HEA4K	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
8MKZ8Q	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
8WV2TR	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
8YFAX7	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
9B9WLT	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		25
							22		11
9DG369	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
9NBN3Q	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
9NW2PJ	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
9YPPFC	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
9Z9GGA	Yfiler™								
3sp									
A9VKGW	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
AELY4H	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3sp - YSTR Results									
AFW4EL	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
AFYQXK	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
AG9R27	Yfiler™								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
AHL7MU	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
B8XWB7	PowerPlex® Y 23								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
BAQMLQ	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
BTGZVA	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
BUAR6U	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
BZFKZQ	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
C8F8MJ	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
CFBXG8	Yfiler™								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
D8PQQD	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3sp - YSTR Results									
DC72ZB	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		11
							22		
DH89JK	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
DJ773T	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
DVUH6P	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
EBP2KT	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
EDX6HB	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
EFFG38	PowerPlex® Y 23								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
EHNNA8	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
EYC3PK	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
FL6D9A	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
G7RBD8	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
GAMDUT	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3sp - YSTR Results									
GMXEXY	Yfiler™								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		11
							22		
GPV6UC	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
GV3TCK	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
HLWY6Y	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
JJ4MJX	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
JUB87Z	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
K3CYZM	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
KEMMWQ	Yfiler™								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
KNCBRT	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
L2GZ2E	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
LNVPFX	Yfiler™								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
M29FQG	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3sp - YSTR Results									
MH3VYM	Yfiler™								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		11
							22		
MNRBRZ	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
MQC88D	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
MXTWUT	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
N8X6VQ	Yfiler™								
	N/A	14	17,17	13	30	21	10	11	13
3sp	14	11	13	21	N/A	15	20	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
NDMHXZ	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
NFQF6L	Yfiler™								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
NJQPBH	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
NYK237	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
NZUDF2	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
P4URQX	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
PRJBU2	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3sp - YSTR Results									
PTYJ8V	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
QB9ZNT	Yfiler™								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
QJW3KU	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
QKYLTR	Yfiler™								
		14	17,17	13	30	21	10		13
3sp						15	20		
QTMJE6	PowerPlex® 23								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
QVCRJZ	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
QYVRXU	PowerPlex® Y 23								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
R7CQWR	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
RB43RN	Yfiler™								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
RTGQX9	Yfiler™								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11
RZ7W3W	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
T2TZ7M	Yfiler™								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3sp - YSTR Results									
TJTXLC	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
TUF67M	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
UA78MQ	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
UF8UQC	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
V2799M	Yfiler™								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		25
							22		11
V47QZM	PowerPlex® Y 23								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
V8T7NX	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
VPEKGU	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
VQL3BJ	Yfiler™								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		25
							22		11
VX8XCM	Yfiler™								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		25
							22		11
W4ADDU	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		25
							22		11
WYMEW	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		25
		12	12	19	17		22	13	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 3sp - YSTR Results									
WZ49EZ	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
Y8JG3M	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
YKLYR2	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
YQ9RYV	PowerPlex® Y 23								
		14	17,17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		25
		12	12	19	17		22	13	11
YQHEPP	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
YZZ6YU	Yfiler™ Plus								
	37,38	14	17,17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
Z6UEUE	Yfiler™								
	NA	14	17,17	13	30	21	10	11	13
3sp	14	11	13	21	NA	15	20	NA	NA
	NA	NA	NA	NA	NA	NA	22	NA	11
ZG7NEX	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
ZHD9XR	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
ZTWHLK	Yfiler™ Plus								
	37,38	14	17	13	30	21	10	11	13
3sp	14	11	13	21	32	15	20	10	25
	41	12		19	17	16	22		11
ZWVW8P	Yfiler™								
		14	17	13	30	21	10	11	13
3sp	14	11	13	21		15	20		
							22		11

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4 - YSTR Results									
29MXAH	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
29PKTG	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
2J4HTE	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
2MYMXH	PowerPlex® Y								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
		12	12	17	18		23	10	12
2UM4RG	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
2VFU33	PowerPlex® Y 23								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
		12	12	17	18		23	10	12
3GVWA7	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
3NUKPP	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
3P7XV8	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
4478Y8	Yfiler™								
	N/A	14	11,14	13	29	24	10	12	12
4	15	12	12	19	N/A	15	17	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12
49FA3N	PowerPlex® Y 23								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
		12	12	17	18		23	10	12
4KPCZ6	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4 - YSTR Results									
4QXDJN	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
4RPMEB	Yfiler™								
	N/A	14	11,14	13	29	24	10	12	12
4	15	12	12	19	N/A	15	17	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12
6AN7LX	Yfiler™ Plus								
	35,35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
6JVLUQ	Yfiler™ Plus								
	35,35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
6NKEM7	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
6NPHGW	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
6ZFPCJ	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
78VFBC	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
7LUJDH	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
7RKUMG	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
7Y49GD	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
83ZU8G	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4 - YSTR Results									
86LPNU	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
8MKZ8Q	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
8WV2TR	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
8YFAX7	PowerPlex® Y 23								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
		12	12	17	18		23	10	12
9B9WLT	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		12
							23		12
9DG369	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
9NBN3Q	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
9NW2PJ	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
9YPPFC	Yfiler™ Plus								
	35,35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
9Z9GGA	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		12
							23		12
A9VKGW	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
AELY4H	Yfiler™ Plus								
	35,35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4 - YSTR Results									
AFW4EL	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
AFYQXK	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
AG9R27	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
AHL7MU	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
B28NL7	PowerPlex® Y 23								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
		12	12	17	18		23	10	12
B8XWB7	PowerPlex® Y 23								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
		12	12	17	18		23	10	12
BAQMLQ	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
BTGZVA	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
BUAR6U	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
BZFKZQ	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
CFBXG8	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
CK6YEF	PowerPlex® Y 23								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
		12	12	17	18		23	10	12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4 - YSTR Results									
D626C6	PowerPlex® Y 23								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
		12	12	17	18		23	10	12
DC72ZB	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
DH89JK	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
DJ773T	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
DVUH6P	Yfiler™ Plus								
	35,35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
EBP2KT	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
EDX6HB	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
EFFG38	PowerPlex® Y 23								
	--	14	11,14	13	29	24	10	12	12
4	15	12	12	19	--	15	17	--	22
	--	12	12	17	18	--	23	10	12
EHNNAB	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
EYC3PK	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
FL6D9A	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
G7RBD8	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4 - YSTR Results									
GAMDUT	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		12
							23		
GMXEXY	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
GPV6UC	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
GV3TCK	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
GWUWXZ	PowerPlex® Y								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
		12	12	17	18		23	10	12
HDXQ6Y	PowerPlex® Y 23								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
		12	12	17	18		23	10	12
HLWY6Y	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
HX8L2C	PowerPlex® Y 23								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
		12	12	17	18		23	10	12
JDGTDZ	PowerPlex® Y 23								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
		12	12	17	18		23	10	12
JJ4MJX	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
JUB87Z	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
K3CYZM	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4 - YSTR Results									
KEMMWQ	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		12
							23		
KNCBRT	PowerPlex® Y 23								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
		12	12	17	18		23	10	12
L2GZ2E	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
LNVPFX	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		12
							23		12
M29FQG	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
MH3VYM	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		12
							23		12
MNRBRZ	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
MQC88D	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
MXTWUT	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
N8X6VQ	Yfiler™								
	N/A	14	11,14	13	29	24	10	12	12
4	15	12	12	19	N/A	15	17	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12
NDMHXZ	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
NFQF6L	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		12
							23		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4 - YSTR Results									
NJQPBH	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
	4	15	12	12	19	29	15	17	10
	38	12		17	18	21	23		12
NYK237	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
	4	15	12	12	19	29	15	17	10
	38	12		17	18	21	23		12
NZUDF2	Yfiler™								
		14	11,14	13	29	24	10	12	12
	4	15	12	12	19	15	17		
						23		12	
P4URQX	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
	4	15	12	12	19	29	15	17	10
	38	12		17	18	21	23		12
PRJBU2	Yfiler™								
		14	11,14	13	29	24	10	12	12
	4	15	12	12	19	15	17		
						23		12	
PTYJ8V	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
	4	15	12	12	19	29	15	17	10
	38	12		17	18	21	23		12
QB9ZNT	Yfiler™								
		14	11,14	13	29	24	10	12	12
	4	15	12	12	19	15	17		
						23		12	
QFWP2C	PowerPlex® Y 23								
		14	11,14	13	29	24	10	12	12
	4	15	12	12	19	15	17		22
		12	12	17	18	23	10	12	
QJW3KU	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
	4	15	12	12	19	29	15	17	10
	38	12		17	18	21	23		12
QKYLTR	Yfiler™								
		14	11,14	13	29	24	10	12	12
	4	15	12	12	19	15	17		
						23		12	
QUY77R	PowerPlex® Y 23								
		14	11,14	13	29	24	10	12	12
	4	15	12	12	19	15	17		22
		12	12	17	18	23	10	12	
QVCRJZ	Yfiler™								
		14	11,14	13	29	24	10	12	12
	4	15	12	12	19	15	17		
						23		12	

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4 - YSTR Results									
QYVRXU	PowerPlex® Y 23								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
		12	12	17	18		23	10	12
R2W63Y	PowerPlex® Y 23								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
		12	12	17	18		23	10	12
R7CQWR	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
R9YDPE	Yfiler™ Plus								
	35,35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
RB43RN	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
							23		12
RTGQX9	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
							23		12
RZ7W3W	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
T2A26J	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
							23		12
T2TZ7M	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
							23		12
TJTXLC	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
TUF67M	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
UA78MQ	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4 - YSTR Results									
UF8UQC	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
V2799M	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
V47QZM	PowerPlex® Y 23								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
		12	12	17	18		23	10	12
V8QKWN	PowerPlex® Y 23								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
		12	12	17	18		23	10	12
V8T7NX	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
VPEKGU	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
VQL3BJ	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
VX8XCM	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
W4ADDU	Yfiler™								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		
							23		12
WMYMEW	PowerPlex® Y 23								
		14	11,14	13	29	24	10	12	12
4	15	12	12	19		15	17		22
		12	12	17	18		23	10	12
WZ49EZ	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12
Y8JG3M	Yfiler™ Plus								
	35	14	11,14	13	29	24	10	12	12
4	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
Item 4 - YSTR Results										
YKLYR2	Yfiler™ Plus									
	35	14	11,14	13	29	24	10	12	12	
4	15	12	12	19	29	15	17	10	22	
	38	12		17	18	21	23		12	
YQHEPP	Yfiler™ Plus									
	35	14	11,14	13	29	24	10	12	12	
4	15	12	12	19	29	15	17	10	22	
	38	12		17	18	21	23		12	
YTZP9M	Yfiler™ Plus.									
	35,35	14	11,14	13	29	24	10	12	12	
4	15	12	12	19	29	15	17	10	22	
	38	12		17	18	21	23		12	
YU9Y2J		14	11,14	13	29	24	10	12	12	
4	15	12	12	19		15	17		22	
		12	12	17	18		23	10	12	
YZZ6YU	Yfiler™ Plus									
	35,35	14	11,14	13	29	24	10	12	12	
4	15	12	12	19	29	15	17	10	22	
	38	12		17	18	21	23		12	
Z6UEUE	Yfiler™									
	NA	14	11,14	13	29	24	10	12	12	
4	15	12	12	19	NA	15	17	NA	NA	
	NA	NA	NA	NA	NA	NA	23	NA	12	
ZG7NEX	Yfiler™ Plus									
	35	14	11,14	13	29	24	10	12	12	
4	15	12	12	19	29	15	17	10	22	
	38	12		17	18	21	23		12	
ZHD9XR	Yfiler™ Plus									
	35	14	11,14	13	29	24	10	12	12	
4	15	12	12	19	29	15	17	10	22	
	38	12		17	18	21	23		12	
ZTWHLK	Yfiler™ Plus									
	35	14	11,14	13	29	24	10	12	12	
4	15	12	12	19	29	15	17	10	22	
	38	12		17	18	21	23		12	
ZWWW8P	Yfiler™									
		14	11,14	13	29	24	10	12	12	
4	15	12	12	19		15	17			
							23		12	

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

8HEA4K	Yfiler™ Plus								
	35,35	14	11,14	13	29	24	10	12	12
4e	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12

TABLE 2

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

Item 4sp - YSTR Results

8HEA4K	Yfiler™ Plus								
	35,35	14	11,14	13	29	24	10	12	12
4sp	15	12	12	19	29	15	17	10	22
	38	12		17	18	21	23		12

Additional DNA Results

TABLE 3

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

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

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
29MXAH	Yes	Yes	Yes	No	4HKK8R	Yes	Yes	Yes	No
29PKTG	No Interp	No Interp	No Interp	No Interp	4HNZME	Yes	Yes	Yes	No
2J4HTE					4KPCZ6	Yes	Yes	Yes	No
2JN9W8	Yes	Yes	Yes	No	4LJZH2	Yes	Yes	Yes	No
2MYMXH	Yes	Yes	Yes	No	4LNBHD	Yes	Yes	Yes	No
2UM4RG	Yes	Yes	Yes	No	4PPAXD	Yes	Yes	Yes	No
2VFU33	Yes	Yes	Yes	No	4QXDJN	Yes	Yes	Yes	No
2Z9YTK	Yes	Yes	Yes	No	4RPMEB	Yes	Yes	Yes	No
3BN68Z	Yes	Yes	Yes	No	6AN7LX	Yes	Yes	Yes	No
3C3PZB	Yes	Yes	Yes	No	6JVLUQ	Yes	Yes	Yes	No
3GVWA7	Yes	Yes	Yes	No	6NKEM7	Yes	Yes	Yes	No
3H8LJB	Yes	Yes	Yes	Inc	6NPHGW	Yes	Yes	Yes	No
3NUKPP	Yes	Yes	Yes	No	6ZFCPJ	Yes	Yes	Yes	No
3P7XV8	Yes	Yes	Yes	No	78VFBC	Yes	Yes	Yes	No
3WPCHD	Yes	Yes	Yes	No	7BUQ8C	No Interpretations Reported, DNA Analyzed for Database purposes only.			
4478Y8	Yes	Yes	Yes	No	7DMHGX	Yes	Yes	Yes	No
44P3HU	Yes	Yes	Yes	No	7J9QMA	No Interpretations Reported, DNA Analyzed for Database purposes only.			
49FA3N	Yes	Yes	Yes	No	7JM9GE	Yes	Yes	Yes	No
49VWB6	Yes	Yes	Yes	No	7LUJDH	Yes	Yes	Yes	No
4H7XW6	Yes	Yes	Yes	No	7RKUMG	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
7Y49GD	Yes	Yes	Yes	No	AG9R27				
83ZU8G	Yes	Yes	Yes	No	AHL7MU	Yes	Yes	Yes	No
86LPNU	Yes	Yes	Yes	No	AQEGWP	Yes	Yes	Yes	No
8HEA4K	Yes	Yes	Yes	No	ATLXTZ	Yes	Yes	Yes	No
8MKZ8Q	Yes	Yes	Yes	No	AUFLCV	Yes	Yes	Yes	No
8WV2TR	Yes	Yes	Yes	No	B28NL7	Yes	Yes	Yes	No
8YFAX7	Yes	Yes	Yes	No	B7QPY6	Yes	Yes	Yes	No
92ZMUU	Yes	Yes	Yes	No	B8XWB7	Yes	Yes	Yes	No
9B9WLT	Yes	Yes	Yes	No	BAQMLQ	Yes	Yes	Yes	No
9DG369	Yes	Yes	Yes	No	BJA4CC	Yes	Yes	Yes	No
9F4QG9	Yes	Yes	Yes	No	BJELAB	Yes	Yes	Yes	No
9NBN3Q	Yes	Yes	Yes	No	BR622Z	Yes	Yes	Yes	No
9NW2PJ	Yes	Yes	Yes	No	BTGZVA	Yes	Yes	Yes	No
9YPPFC	Yes	Yes	Yes	No	BUAR6U	Yes	Yes	Yes	No
9Z9GGA	Yes	Yes	Yes	No	BZFKZQ	Yes	Yes	Yes	No
A6HTEA	Yes	Yes	Yes	No	C8F8MJ	Yes	Yes	Yes	No
A8LWHH	Yes	Yes	Yes	No	CBEHJJ	Yes	Yes	Yes	No
A9VKGW	Yes	Yes	Yes	No	CFBXG8	Yes	Yes	Yes	No
AELY4H	Yes	Yes	Yes	No	CK6YEF	Yes	Yes	Yes	No
AFW4EL	Yes	Yes	Yes	No	CNJY9L	Yes	Yes	Yes	No
AFYQXK	Yes	Yes	Yes	No	CQ7DXV	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
CYMUP6	Yes	Yes	Yes	No	G7RBD8	Yes	Yes	Yes	No
D3GBF4	Yes	Yes	Yes	No	G8HMMD	Yes	Yes	Yes	No
D626C6	Yes	Yes	Yes	No	G9TMND	Yes	Yes	Yes	No
D8PQQD	Yes	Yes	Yes	No	GAMDUT	Yes	Yes	Yes	No
DC72ZB	Yes	Yes	Yes	No	GBF2CN	Yes	Yes	Yes	No
DH89JK	Yes	Yes	Yes	No	GMUYJD	Yes	Yes	Yes	No
DJ773T	Yes	Yes	Yes	No	GMXEXY	Yes	Yes	Yes	No
DVUH6P	Yes	Yes	Yes	No	GPV6UC	Yes	Yes	Yes	No
E2J6N3	No Interpretations Reported, DNA Analyzed for Database purposes only.				GQDAEV	Yes	Yes	Yes	No
E9ZXME	Yes	Yes	Yes	No	GUQW4U	Yes	Yes	Yes	No
EBP2KT	Yes	Yes	Yes	No	GV3TCK	Yes	Yes	Yes	No
EDX6HB	Yes	Yes	Yes	No	GWUWXZ	Yes	Yes	Yes	No
EFFG38	Yes	Yes	Yes	No	HDXQ6Y	Yes	Yes	Yes	No
EHNNA8	Yes	Yes	Yes	No	HLWY6Y	Yes	Yes	Yes	No
EUFD8R	Yes	Yes	Yes	No	HWH4CX	Yes	Yes	Yes	No
EYC3PK	Yes	Yes	Yes	No	HX8L2C	Yes	Yes	Yes	No
F3UCK4	Yes	Yes	Yes	No	J3EER2	Yes	Inc	Yes	Inc
F832GH	Yes	Yes	Yes	No	JAWYFY	Yes	Yes	Yes	No
FFD43H	Yes	Yes	Yes	No	JBDW9Y	Yes	Yes	Yes	No
FL6D9A	Yes	Yes	Yes	No	JD2LEX	No Interpretations Reported, DNA Analyzed for Database purposes only.			
G39A6E	Yes	Yes	Yes	No	JDGTDZ	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
JJ4MJX	Yes	Yes	Yes	No	NDMHXZ	Yes	Yes	Yes	No
JTEP6Y	No Interpretations Reported, DNA Analyzed for Database purposes only.				NFQF6L	Yes	Yes	Yes	No
JUB87Z	Yes	Yes	Yes	No	NGGTJX	Yes	Yes	Yes	No
K3CYZM	Yes	Yes	Yes	No	NJQPBH	Yes	Yes	Yes	No
KADDN9	Yes	Yes	Yes	No	NYK237	Yes	Yes	Yes	No
KEMMWQ	Yes	Yes	Yes	No	NZUDF2	Yes	Yes	Yes	No
KKEP6W	Yes	Yes	Yes	No	P4URQX	Yes	Yes	Yes	No
KNCBRT	Yes	Yes	Yes	No	P933VL	Yes	Yes	Yes	No
L2GZ2E	Yes	Yes	Yes	No	PFZYCW	Yes	Yes	Yes	No
LFCGQC	Yes	Yes	Yes	No	PPXH4R	Yes	Yes	Yes	No
LMX49W	Yes	Yes	Yes	No	PRJBU2	Yes	Yes	Yes	No
LNVPX	Yes	Yes	Yes	No	PTYJ8V	Yes	Yes	Yes	No
M29FQG	Yes	Yes	Yes	No	Q2GKYP	No Interpretations Reported, DNA Analyzed for Database purposes only.			
M8HKPV	Yes	Yes	Yes	No	QB4MXC	Yes	Yes	Yes	No
MH3VYM	Yes	Yes	Yes	No	QB9ZNT	Yes	Yes	Yes	No
MNRBRZ	Yes	Yes	Yes	No	QFJ3N4	Yes	Yes	Yes	No
MQC88D	Yes	Yes	Yes	No	QFWP2C	Yes	Yes	Yes	No
MTGYX7	Yes	Yes	Yes	No	QJW3KU	Yes	Yes	Yes	No
MXTWUT	Yes	Yes	Yes	No	QKYLTR	Yes	Yes	Yes	No
N4CDTW	Yes	Yes	Yes	No	QREB9R	Yes	Yes	Yes	No
N8X6VQ	Yes	Yes	Yes	No	QTMJE6	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
QU2QX2	Yes	Yes	Yes	No	V2799M	Yes	Yes	Yes	No
QUY77R	Yes	Yes	Yes	No	V47QZM	Yes	Yes	Yes	No
QVCRJZ	Yes	Yes	Yes	No	V8QKWN	Yes	Yes	Yes	No
QYVRXU	Yes	Yes	Yes	No	V8T7NX	Yes	Yes	Yes	No
R2W63Y	Yes	Yes	Yes	No	VA37XB	Yes	Yes	Yes	No
R7CQWR	Yes	Yes	Yes	No	VDJF32	Yes	Yes	Yes	No
R9YDPE	Yes	Yes	Yes	No	VPEKGU	Yes	Yes	Yes	No
RB43RN	No Interp	No Interp	No Interp	No Interp	VQL3BJ	Yes	Yes	Yes	No
RTGQX9	Yes	Yes	Yes	No	VX8XCM	Yes	Yes	Yes	No
RZ7W3W	Yes	Yes	Yes	No	W2J68Z	Yes	Yes	Yes	No
RZNVA3	Yes	Yes	Yes	No	W2NHWG	Yes	Yes	Yes	No
T2A26J	Yes	Yes	Yes	No	W4ADDU	Yes	Yes	Yes	No
T2TZ7M					WGFHNG	Yes	Yes	Yes	No
TJ8JTT	Yes	Yes	Yes	No	WMYMEW	Yes	Yes	Yes	No
TJTXLC	Yes	Yes	Yes	No	WT3TRD	Yes	Yes	Yes	No
TR2QBY	Yes	Yes	Yes	No	WZ49EZ	Yes	Yes	Yes	No
TUF67M	Yes	Yes	Yes	No	XDNP4X	Yes	Yes	Yes	No
U3GXPD	Yes	Yes	Yes	No	XH4F9T	Yes	Yes	Yes	No
UA78MQ	Yes	Yes	Yes	No	XXZMDL	Yes	Yes	Yes	No
UF8UQC	Yes	Yes	Yes	No	Y767YN	Yes	Yes	Yes	No
UK3NMR	Yes	Yes	Yes	No	Y8JG3M	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
YGTN6H	Yes	Yes	Yes	No					
YJNNRT	Yes	Yes	Yes	No					
YKLYR2	Yes	Yes	Yes	No					
YQ9RYV	Yes	Yes	Yes	No					
YQHEPP	Yes	Yes	Yes	No					
YTZP9M	Yes	Yes	Yes	No					
YU9Y2J	Yes	Yes	Yes	No					
YZZ6YU	Yes	Yes	Yes	No					
Z6UEUE	Yes	Yes	Yes	No					
ZG7NEX	Yes	Yes	Yes	No					
ZHD9XR	Yes	Yes	Yes	No					
ZTWHLK	Yes	Yes	Yes	No					
ZWVW8P	Yes	Yes	Yes	No					
ZYKDDG	Yes	Yes	Yes	No					

DNA Interpretation					
Response Summary			Participants reporting DNA results: 222		
<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		211	210	211	0
No		0	0	0	209
Inc		0	1	0	2
No Interpretation		2	2	2	2
No Response		3	3	3	3

Participants analyzing DNA for database purposes only: 6

Additional Comments

TABLE 5

WebCode	Additional Comments
29MXAH	NR=no result
29PKTG	No interpretation performed and known sample not profiled; Items 3 and 4 analyzed to confirm that correct profiles were obtained by the assigned scientist who is qualified in extraction through CE but not in data interpretation.
2J4HTE	No comparisons performed [Initials] 11/18/2021
2JN9W8	Item 4 was chosen for a robotic differential digestion procedure. Based on the case circumstances, only the "e" fraction was chosen for amplification.
3BN68Z	Likely to conduct rework on Item 4 in an attempt to complete the major portion matching the victim reference for a standard statistical evaluation. In my opinion, after statistical evaluation, it may be possible to attribute the body fluids to the individuals. Item 3: In my opinion, the semen present is attributable to the suspect given that a complete DNA profile was obtained from the seminal fraction matching him. In my opinion, the blood present is attributable to victim given that a complete major, strong DNA profile was obtained from the cellular fraction. Item 4: In my opinion, the blood present is attributable to victim given that a predominant DNA profile was obtained.
3C3PZB	ND = Not Detected
3GVWA7	Extraction: Item 3 and Item 4 were extracted using Chelex extraction method. Quantification: Item 3 and Item 4 were quantified using the Quantifiler™ Human DNA Quantification Kit on the Applied Biosystems™ 7500 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using the AmpFLSTR™ Identifiler™ Direct Amplification Kit on the Applied Biosystems™ GeneAmp™ PCR System 9700. With in-situ method, Item 2 was also amplified using the YFiler™ PCR Amplification Kit on the Applied Biosystems™ GeneAmp™ PCR System 9700. Item 3 and Item 4 were amplified using the AmpFLSTR™ Identifiler™ Plus and YFiler™ PCR Amplification Kits on the Applied Biosystems™ GeneAmp™ PCR System 9700. Electrophoresis: Electrophoresis was carried out on the Applied Biosystems™ 3500xL Genetic Analyzer and the data were analyzed using GeneMapper™ ID-X Software v1.5. Quality Control: Reagent Blank, Positive Control and Negative Control were included throughout the analysis and all gave intended results.
3P7XV8	Extraction: Item 3 was extracted using Chelex Differential Extraction while Item 4 was extracted using Chelex Extraction. Quantification: Item 3 and Item 4 were quantified using the Quantifiler Human DNA quantitation kit and carried out by 7500 Real-Time PCR. Amplification: Item 1 and Item 2 were amplified using AMPFISTR Identifiler Direct Kit on 9700 GeneAmp PCR System. Item 3 and Item 4 were amplified using AMPFISTR Identifiler Plus Kit on 9700 GeneAmp PCR System. Item 2, 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.
3WPCHD	-- No additional peaks were detected; detected data is below stochastic threshold
4478Y8	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
49FA3N	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification.

TABLE 5

WebCode	Additional Comments
4KPCZ6	Extraction: Item 1 and Item 2 were extracted using in-situ method while Item 3 and Item 4 were extracted using Chelex extraction method. Quantification: DNA quantitation for Item 3 and Item 4 were carried out using the Quantifiler Human DNA Quantification kit with Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 system. Amplification: Item 1 and Item 2 were amplified using AmFISTR Identifiler Direct Kit while Item 3 and Item 4 were amplified using AmFISTR Identifiler Plus kit on 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification was carried out on Item 2, Item 3 and Item 4 using AmFISTR Y-Filer kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 1 and Item 2 (Identifiler Direct), Item 3 and Item 4 (Identifiler Plus). Electrophoresis for Y-Filer was carried out on Genetic Analyzer 3500xl for Item 2, Item 3 and Item 4. Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
4RPMEB	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds. N/A - Not Applicable.
6JVLUQ	NR = No DNA Results
6NKEM7	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
78VFCB	Possible drop-out observed at: Amelogenin (Y), D21S11 (31.2), D7S820 (7), D1S1656 (14) and D2S1338 (22).
7BUQ8C	Test participant functions as Y-screen technician and does not perform interpretations.
7LUJDH	Drop out observed for K2 at D10 in 3A-1 PT NS.
7RKUMG	Possible dropout observed in item 4 at D1S1656 (14) and D12S391 (19).
92ZMUU	Two stains were sampled from Item 3. A bloodstain was sampled and a strip of material was cut out for a semen preferential extraction. The presence of spermatozoa was confirmed in a portion of material extracted from the strip of material and the seminal fraction was submitted for DNA profiling. The cellular fraction was also submitted for DNA profiling but the results have not been reported here. A peak was detected in the seminal fraction from Item 3, which was not accounted for by DNA from either of the known profile. This peak at FGA (15) was 110RFU and within range of heights of peaks understood to be drop-in. A peak was also detected in the bloodstain tested from Item 3 at FGA, which was 465RFU. This is just above range of heights of peaks understood to be drop-in, although could still be drop-in, or an indication of DNA from another source. The overall result did not however have any indications of DNA from more than two people. A low level 18 peak was detected at D3 (573rfu) from Item 4. Without re-work it is not possible to determine whether this is allelic or more likely to be stutter/artefact peak. The result from Item 4 indicates a mixture of DNA that can be accounted for by DNA from the female victim who could have contributed the majority of the DNA detected and an unknown male, and with further deconvolution it may be possible to derive a more complete DNA profile suitable for database searching.
9B9WLT	Extraction: Item 1 and Item 2 were extracted using in situ method. Item 3 was extracted using differential extraction method and Item 4 was extracted using QIAAsymphony DNA Investigator kit via QIAAsymphony SP. Quantitation: Item 3 and Item 4 were quantified using ABI Quantifiler Trio DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using Globalfiler Express (GFE) kit on ABI Proflex PCR System. Item 3 and Item 4 were amplified using Globalfiler PCR Amplification kit on ABI GeneAmp PCR System 9700. Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Yfiler PCR Amplification kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4. Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 2, Item 3 and Item 4 (Y-filer). Quality Control: Reagent blank, Positive Control and Negative Control were carried out during analysis and all gave intended results. NM: Non-male allele.
9Z9GGA	Elevated stutter was observed for Item 3 (Y-STR profile; locus DYS458 in the 19 position). Per protocol, the haplotype is considered single source; however, DYS458 would not be included in the statistical calculation due to the observation of elevated stutter product (or possible mutation in progress) at 32% height of the parent allele 20.

TABLE 5

WebCode	Additional Comments
A6HTEA	DYS391 is not used for interpretation.
A9VKGW	Genemapper ID-X used for analysis. STRmix software used for Item 3F and Item 4. NR = No Results.
AG9R27	No comparisons were performed [Initials] 12-Nov-2021
AHL7MU	STRmix probabilistic genotyping software was used in the analysis of Item 3F and Item 4. The data reported out in this test is from analysis utilizing GeneMapper ID-X. NR = No Results.
ATLXTZ	Major profiles shown as genotypes where it has been possible to clearly determine, eg 12,12. Where it is not possible to clearly determine the genotype, then shown as list of alleles, eg 22,23,25. Lower level alleles shown in square brackets. Item 3: Cellular (e) fraction was mixed profile with major female matching victim and minor male matching suspect. Major was clear and complete, and a default statistic would be applied. As minor matched male profile from seminal fraction, no statistical evaluation would be carried out for the minor. Default statistic would be applied to the seminal fraction profile. Item 4: Major matched victim; not a clear major and therefore probabilistic software would be used for statistic. Minor did not match suspect and therefore is from an unknown source; this means that it would not be possible to condition on the wearer of the shirt when resolving the mixture.
B7QPY6	Technical Review (Ownership Review) PT
BAQMLQ	Extraction: Item 1 and Item 2 were extracted using in situ method. Item 3 was extracted using differential extraction method and Item 4 was extracted using QIA symphony DNA Investigator kit via QIASymphony SP. Quantitation: Item 3 and Item 4 were quantified using ABI Quantifier Trio DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using Globalfiler Express(GFE) kit on ABI Proflex PCR System. Item 3 and Item 4 were amplified using Globalfiler Amplification kit on ABI GeneAmp PCR System 9700. Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Yfiler PCR Amplification kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4. Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 2, Item 3 and Item 4 (Y-Filer). Quality Control: Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave expected results. NM: Non-male allele.
BJELAB	Item 4 was differentially extracted per lab protocol, however only a partial profile was obtained. It is reported on under the item 4 tab in the boxes for 4sp, but no conclusions were made on the sample in my interpretation due to the lack of data.
BUAR6U	NR = No Results. STRmix performed on Items 3F and 4. Results based on Genemapper IDX.
BZFKZQ	Extraction: Item 1 and Item 2 were extract using in-situ method while Item 3 and Item 4 were extracted using QIASymphony DNA investigator Kit via QIASymphony SP. Quantification: Item 3 and Item 4 were quantified using quantifier Trio DNA Quantification kit on RTPCR Quanstudio 5. Amplification: Item 1 & Item 2 were amplified using Globalfiler Express PCR Amplification Kit on ABI Proflex PCR system. Item 3 & Item 4 were amplified using Globalfiler PCR Amplification Kit on 9700 GeneAmp PCR System. Y-STR amplification was carried out on Item 2, Item 3 & Item 4 using AmFISTR Y-Filet kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 1 & Item 2 (Globalfiler Express) and Item 3 & Item 4 (Globalfiler). Electrophoresis for Y-Filer was carried out on Genetic Analyzer 3500xl for Item 2, Item 3 & Item 4. Quality Control: Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
CFBXG8	NR = No results
CK6YEF	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. Powerplex fusion 6C is used only for allele verification. Item 3 sp at locus D21S11 - There is a minor allele 34, which is inconsistent with being a contributor to the overall profile. The average peak height ratio of allele 34 to allele 35 is 11.86%, exceeding the Laboratory's stutter threshold for this locus of 10.69%. The minor allele 34 is likely to be an elevated stutter.
DJ773T	A low level peak (allele 8 at D13S317 at 95rfu) was detected in the DNA profile from Item 3: sperm fraction

TABLE 5

WebCode	Additional Comments
DVUH6P	"NR" indicates that no results were obtained at that locus. All data reported out in this proficiency originate from analysis using GeneMapper ID-X. In addition, Items 3 and 4 were analyzed using STRmix software.
E2J6N3	Analyst is only competent in DNA processing of known standards, therefore Item 3 and Item 4 were not tested.
EFFG38	Item-3 is a DNA mixture. Female (Item-1) and Male (Item-2) DNA are in the DNA mixture. Male DNA (Item-2) is the predominant species; that's why it is also detected in the "e" Fraction. Item-4 is a DNA mixture. Female (Item-1) and Male (not Item-2) are in the DNA mixture.
EUFD8R	Results from Item 3 were overamped. Results from CP had possible drop in.
FFD43H	Please note that results for Item 3A, epithelial fraction, and Item 4A are observed alleles. Items 1A, 2A and the sperm fraction of 3A are complete genotypes.
GAMDUT	1. Extraction: In-situ extraction method was used to extract DNA from Item 1 and Item 2. Chelex extraction method was used to extract DNA from Item 3 and Item 4. 2. Quantification: DNA quantification was carried out on Item 3 and Item 4 using Quantifiler Human DNA Quantification Kit with Applied Biosystem Real Time Polymerase Chain Reaction 7500 System. 3. Amplification: Amplification of STR (Short Tandem Repeat) Genetic Loci was carried out on Item 1 and Item 2 using the AmpFLSTR Identifiler Direct PCR Amplification Kit, while on Item 3 and Item 4 using the AmpFLSTR Identifiler Plus PCR Amplification Kit on the 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification was carried out on Item 2, Item 3 and Item 4 using the AmpFLSTR Y-Filer PCR Amplification Kit on the 9700 Gene Amp PCR System. 4. Electrophoresis: Electrophoresis was carried out using Applied Biosystem 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 1 and Item 2 (Identifiler Direct) and Item 3 and Item 4 (Identifiler Plus). Electrophoresis for Y-Filer was carried out using Applied Biosystem 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 2, Item 3 and Item 4. 5. Reagent blank, positive control and negative control were carried out throughout the analysis and all gave the intended results.
GMXEXY	[] - indicates minor allele(s) and alleles between analytical and stochastic thresholds
GQDAEV	ND = not detected
GV3TCK	Extraction: Item 1 and Item 2 were extracted using in-situ method. Item 3 was extracted using Chelex Differential extraction method and Item 4 was extracted using QIAAsymphony DNA Investigator Kit via QIAAsymphony SP. Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Trio DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using GlobalFiler Express PCR Amplification Kit on Proflex PCR System. Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1 and Item 2 (GlobalFiler Express Kit), Item 3 and Item 4 (GlobalFiler Kit). Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 2, Item 3 and Item 4 (Y-Filer Kit). Quality Control: Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
JUB87Z	YSTR data was analyzed to verify correct results for the scientist ([Name]) who is qualified in extraction through CE. Item 4 was inadvertently extracted using a differential extraction; however, since there was not semen in the sample, the sperm fraction was not tested beyond extraction. For Item 4 "no" was selected for "Was a differential extraction performed" so that it would not be split into epithelial and sperm cell fractions.
KADDN9	NR = No DNA result
KEMMWQ	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
KKEP6W	Technical Review (Ownership Review) PT. {} = imbalanced alleles.
L2GZ2E	NR = no results
LNVPFX	NR = No Result. Item 3 E-fraction: potential elevated stutter observed at DYS570, 18 allele could not be differentiated from artifact.

TABLE 5

WebCode	Additional Comments
M29FQG	NR = No Results. STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X.
MH3VYM	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
N8X6VQ	[] - Indicates minor allele/s and alleles between analytical and stochastic thresholds. N/A - Not Applicable.
NFQF6L	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
NJQPBH	Elevated stutter (19 and 21 at DYS458) was detected in the Y-STR DNA profile from Item 3: epithelial fraction. Elevated stutter (19 at DYS458 and 12 at DYS438) was detected in the Y-STR DNA profile from Item 3: sperm fraction.
PRJBU2	Possible dropout at D12 for 3A-2 non-sperm fraction. 4A-2, peak detected at allele 11 @ D5S818, but removed for entry because possible stutter.
QB4MXC	Item 3 (cellular) mix of victim (major) + suspect (minor). Item 3 (seminal) full profile matching suspect. Item 4 mix of victim (more prominent) + less prominent U/K male.
QB9ZNT	NR=No Results
QKYLTR	NR = No Results
QVCRJZ	Possible alleles observed below analytical threshold for item 4 at the following: 10 at DYS391, 16.3 at D1S1656, and 19 at D12S391.
R2W63Y	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. Powerplex Fusion 6C is used only for allele verification. Sample Item 2 at locus D21S11 – There is a minor allele 34, which is inconsistent with being a contributor to the overall profile. The average peak height ratio of allele 34 to allele 35 is 10.691%, exceeding the Laboratory's stutter threshold for this locus of 10.690%. The minor allele 34 is likely to be an elevated stutter.
RB43RN	No comparisons performed. [Initials] 12/14/2021
RZNVA3	NR= no DNA result
T2A26J	Item 4 showed a mixed profile, which included the alleles of the female victim and another unknown male (not the suspect in this case). And the unknown male was the minor contributor with extremely low component that was quite difficult to interpret.
T2T27M	No comparisons performed. [Initials] 12NOV2021
TJTXLC	The data reported out in this test is from analysis using Genemapper ID-X. NR= no results. STRmix done on Item 3F and Item 4.
V2799M	NR=No Result; Item #1-4.1: A peak present in the 10 position at locus D7S820 has been recognized through STRmix analysis to be potentially allelic; however, this peak was filtered out by the detection software (GMID-X) stutter settings. The peak cannot be differentiated from artifact, and data will be reported per laboratory protocols, to include only alleles labeled in original electropherogram.
VA37XB	Item 04 - FGA (NR,NR) unable to determine major/minor contributors.
VDJF32	NT=Not tested. Inc=Inconclusive.
VQL3BJ	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
VX8XCM	NR=No Results. An additional peak below threshold may be possible at locus Penta D, due to low level peak heights of the secondary contributor and the possibility that the sister allele may have dropped out or may be masked.
WZ49EZ	NR = No Results. STRmix analysis was conducted on Item 3F and Item 4. The data reported out in this test is from analysis using Genemapper ID-X.
Z6UEUE	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
ZG7NEX	N/R = No Results. Data analyzed using GeneMapper ID-X. STRmix used for probabilistic genotyping.

TABLE 5

WebCode	Additional Comments
ZWVW8P	Possible allelic dropout observed in the DNA results for item 4 at D21 and D12.

-End of Report-
(Appendix may follow)

Test No. 21-5806: DNA-Mixture

DATA MUST BE SUBMITTED BY **Dec. 20, 2021, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: KP7YBN

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:

A sexual assault involving a female victim is currently being investigated by police. The victim told police she attended a party the night prior at a friend's house. She told police she had been drinking and blacked out at some point in the night. In the morning, she woke up in bed with a male. She states that they both weren't wearing any clothes. She also noticed that she had several bruises and injuries on her abdomen and legs. Police were able to apprehend the male suspect based on a detailed description by the victim. Investigators are submitting a stain from the fitted bed sheet (Item 3) and a stain from the shirt the suspect was wearing at the party (Item 4). Screening has been performed on both samples with the following results: Item 3 (sheet) is positive for blood and semen, and Item 4 (suspect's shirt) is positive for blood. Also collected were known blood samples from the female victim (Item 1) and the male suspect (Item 2).

Items Submitted (Sample Pack S6):

Item 1: Known blood from the female victim

Item 2: Known blood from the male suspect

Item 3: Questioned blood and semen stain from bed sheet (pink)

Item 4: Questioned blood stain from suspect's shirt (blue)

Part II: DNA INTERPRETATION

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

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

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

Part III: ADDITIONAL COMMENTS

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

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

RELEASE OF DATA TO ACCREDITATION BODIES

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

CTS submits external proficiency test data directly to 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)