Collaborative Testing Services, Inc
FORENSIC TESTING PROGRAM

DNA-Mixture Test No. 22-5806
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 204 participants and are compiled into the following tables:

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, 3 were prepared from human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. The stain in Item 4 was prepared from 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 blood. Item 1 (75 μl) was created using blood from a female donor. Item 2 (75 μl) and Item 3 (50 μl) were created using blood collected from the same male donor. Item 4 was created using blood from the female donor found in Item 1 and semen from a male whose standard was not provided. Completed sample sets were stored at -20°C until shipment on October 17, 2022 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 and sealed. 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 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
1	15,17.3	18,25	14,14	15,18	9,11	*
	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26	9,10	13,16	15,26.2	7,9.3	9,11
	15,19	NM	NM	NM	NM	
2	12,15.3	19,21	10,14	15,15	11,11	*
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7	17,28.2	7,9.3	8,8
	15,16	10	19	16	2	
3	12,15.3	19,21	10,14	15,15	11,11	*
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7	17,28.2	7,9.3	8,8
	15,16	10	19	16	2	
4-Blood	15,17.3	18,25	14,14	15,18	9,11	*
	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26	9,10	13,16	15,26.2	7,9.3	9,11
	15,19	NM	NM	NM	NM	
4-Semen	13,15	17,19	11,14	16,16	11,12	*
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	11,13	10,14	16,27.2	6,7	8,8
	16,16	10	22	16	2	

YSTR Results

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

Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
2	36,36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12	12	19	16	20	21	12	11
3	36,36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12	12	19	16	20	21	12	11
4-Semen	36,37	14	14,14	12	28	22	10	11	13
	16	10	11	20	27	14	15	10	25
	40	11	12	22	16	19	22	12	11

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

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

Summary Comments

The 22-5806 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 created using blood from a female donor. Item 2 and Item 3 were created using blood collected from the same male donor. Item 4 was created using blood from the female donor found in Item 1 and semen from a male whose standard was not provided. (See Manufacturer's Information for preparation details)

Of the 204 participants that returned results, 190 reported DNA interpretations. Two participants did not respond, five selected the "No Interpretations" option for all Interpretation questions, and seven stated that the samples were analyzed for database purposes only.

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

For the Item 4 stain, all but one participant included the victim (Item 1) as a possible contributor. The remaining participant excluded the victim as a possible contributor. Concerning the suspect (Item 2) in regards to the Item 4 stain, all participants excluded the suspect as a possible contributor.

A total of 52 participants reported the use of Probabilistic Genotyping (PG) software on either solely the questioned items or all four items.

STR Amplification Kit(s) & Results

TABLE 1

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

27MMNX — PowerPlex® Fusion (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	9,10	13,16		7,9.3	9,11
15,19	NR				

29CZ4U — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

29DNRZ — GlobalFiler™ Direct (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

2A4YEM — GlobalFiler™ Express (STRmix) (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	No results			No results	

2PKPMM — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14,14	15,18	9,11	NA
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	NA	NA	15,26.2	7,9.3	9,11
15,19	NA	NA	NA	NA	

2R422H — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14,14	15,18	9,11	N/A
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	N/A	N/A	15,26.2	7,9.3	9,11
15,19	NSD	N/A	N/A	NSD	

TABLE 1

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

33KV8K — GlobalFiler™ Express

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	18,25	14	15,18	9,11	
	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19	No results			No results	

368REB — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	18,25	14,14	15,18	9,11	
	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19	NR			NR	

3DZXE4 — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	18,25	14	15,18	9,11	
	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

3ERXAT — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	18,25	14	15,18	9,11	
	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

3F7HZH — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	18,25	14,14	15,18	9,11	NA
	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26	NA	NA	15,26.2	7,9.3	9,11
	15,19	NA	NA	NA	NA	

3GEKZV — GlobalFiler™ Express

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	18,25	14	15,18	9,11	
	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19	NM			NM	

3NXFR7 — GlobalFiler™ Expres

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	18,25	14,14	15,18	9,11	
	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

TABLE 1

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

3P9PUW — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	18,25	14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

3TDDDT — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	18,25	14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

3TGQ6V — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	18,25	14,14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26	9,10	13,16		7,9.3	9,11
	15,19	ND				

3YY7PR — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	18,25	14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

3ZD8H2 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	18,25	14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

48R2YV — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	18,25	14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

4DBLAH — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	18,25	14,14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

TABLE 1

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

WebCode / Item						
4FK9KM GlobalFiler™						
	15,17.3	18,25	14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					
4HAF9P PowerPlex® Fusion 6C						
	15,17.3	18,25	14,14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26	9,10	13,16	15,26.2	7,9.3	9,11
	15,19	NR	NR	NR		
63T37H GlobalFiler™						
	15,17.3	18,25	14,14	15,18	9,11	N/A
1	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26	N/A	N/A	15,26.2	7,9.3	9,11
	15,19	N/A	N/A	N/A	N/A	
6H3A7F PowerPlex® Fusion 6C						
	15,17.3	18,25	14,14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26	9,10	13,16	15,26.2	7,9.3	9,11
	15,19					
6HKM2K PowerPlex® Fusion 6C						
	15,17.3	18,25	14,14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26	9,10	13,16	15,26.2	7,9.3	9,11
	15,19					
6KVF4Y GlobalFiler™ Direct (STRmix)						
	15,17.3	18,25	14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					
6QUM6E GlobalFiler™						
	15,17.3	18,25	14,14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

TABLE 1

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

6XGYEV — GlobalFiler™ — Item 1

D1S1656/etc					
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

7CZW3W — GlobalFiler™ Direct — Item 1

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

7QWB3P — PowerPlex® Fusion — Item 1

15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	9,10	13,16		7,9.3	9,11
15,19	NR				

8DLK2W — GlobalFiler™ Express — Item 1

15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

8GLAGP — GlobalFiler™ Direct — Item 1

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

8LED42 — GlobalFiler™ (STRmix) — Item 1

15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

93XQVY — GlobalFiler™ — Item 1

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

TABLE 1

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

WebCode / Item						
97EXFR	GlobalFiler™					
	15,17.3	18,25	14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					
9X67YP	GlobalFiler™					
	15,17.3	18,25	14,14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					
9X8GP8	Investigator® 24plex					
	15,17.3	18,25	14	15,18	9,11	NT
1	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26	NT	NT	15,26.2	7,9.3	9,11
	15,19	NR	NT	NT	NT	
9XMHQN	GlobalFiler™					
	15,17.3	18,25	14,14	15,18	9,11	--
1	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26	--	--	15,26.2	7,9.3	9,11
	15,19	--	--	--	--	
A3FGPX	GlobalFiler™					
	15,17.3	18,25	14,14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					
A4E66U	GlobalFiler™					
	15,17.3	18,25	14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					
A7ZQW	GlobalFiler™					
	15,17.3	18,25	14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19	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

AAEJTF	GlobalFiler™					
	15,17.3	18,25	14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19	No results			No results	
AHU399	PowerPlex® 21					
	15,17.3	18,25		15,18	9,11	12,12
1	10,14	11,14		21,23	9,9	12,12
	15,16	12,14	29,30		X,X	10,12
	20,26	9,10	13,16		7,9.3	9,11
	15,19					
AMLE6Q	GlobalFiler™					
	15,17.3	18,25	14,14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19	--			--	
APPAM9	GlobalFiler™					
	15,17.3	18,25	14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					
AU88E6	GlobalFiler™					
	15,17.3	18,25	14,14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19	NR			NR	
AZPVT8	Identifiler® Plus					
		18,25		15,18	9,11	
1	10,14	11,14			9,9	12,12
	15,16	12,14	29,30		X,X	10,12
	20,26				7,9.3	9,11
	15,19					
B6JYFJ	GlobalFiler™					
	15,17.3	18,25	14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

TABLE 1

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

B87XA9 — GlobalFiler™ — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

BBQK9M — GlobalFiler™ — Item 1

15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	--			--	

BDD6AK — GlobalFiler™ — Item 1

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

BNCXKW — GlobalFiler™ — Item 1

15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

BU4X6K — GlobalFiler™ Direct — Item 1

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

BYBTF8 — GlobalFiler™ — Item 1

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

CA6DFB — GlobalFiler™ Express — Item 1

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	No Results			No Results	

TABLE 1

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

CAE4TN — GlobalFiler™ Direct (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

CBJVJG — PowerPlex® 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26	9,10	13,16	15,26.2	7,9.3	9,11
15,19					

CDPVKV — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

CFXFGP — PowerPlex® Fusion 5C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26	9,10	13,16		7,9.3	9,11
15,19	NR				

CKAEYA — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14,14	15,18	9,11	NA
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	NA	NA	15,26.2	7,9.3	9,11
15,19	NA	NA	NA	NA	

CMWX3T — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

CT42XF — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

TABLE 1

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

Item 1 - STR Results

D74MQB — GlobalFiler™ (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

D7NLN9 — GlobalFiler™ (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	NA
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	NA	NA	15,26.2	7,9.3	9,11
15,19	NA	NA	NA	NA	

D8WKYG — PowerPlex® Fusion (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26	9,10	13,16		7,9.3	9,11
15,19	NR				

D9PMQQ — GlobalFiler™ (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

DLZY4K — GlobalFiler™ (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	--			--	

DNJ23D — PowerPlex® Fusion 5C, GlobalFiler™ (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26	9,10	13,16		7,9.3	9,11
15,19	NR				

DV3WUN — GlobalFiler™ (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	No Result			No Result	

TABLE 1

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

Item 1 - STR Results

DWD7VE — PowerPlex® Fusion 5C — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26	9,10	13,16		7,9.3	9,11
15,19	NR				

DY6WUL — ESI-17 — Item 1

15,17.3	18,25	14,14	15,18		
	11,14	13,15	21,23		12,12
15,16	12,14	29,30	11,15	X,X	
20,26			15,26.2	7,9.3	
15,19					

EBAVBC — PowerPlex® Fusion 6C — Item 1

15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	9,10	13,16	15,26.2	7,9.3	9,11
15,19	NR	NR	NR		

EBXY8T — GlobalFiler™ — Item 1

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

EEVWLK — GlobalFiler™ — Item 1

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	NM			NM	

EF9YGD — PowerPlex® Fusion — Item 1

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26	9,10	13,16		7,9.3	9,11
15,19	NR				

EJNPL8 — GlobalFiler™ — Item 1

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

TABLE 1

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

EPBAUU — GlobalFiler™ (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

EQRN24 — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

F2Z3NH — GlobalFiler™ Express (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	NM			NM	

FGG4JM — GlobalFiler™ (TrueAllele) (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

FKVVAF — Investigator® 24plex QS & GO (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14,14	15,18	9,11	N/A
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	N/A	N/A	15,26.2	7,9.3	9,11
15,19	N/A	N/A	N/A	N/A	

FRZV7H — PowerPlex® Fusion (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	9,10	13,16		7,9.3	9,11
15,19	NR				

FU4UEP — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	9,10	13,16	15,26.2	7,9.3	9,11
15,19	No Results	No Results	No Results		

TABLE 1

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

G22U6G — GlobalFiler™ Express — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	NM			NM	

G6FKAC — GlobalFiler™ — Item 1

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

G6KX2E — PowerPlex® Fusion — Item 1

15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	9,10	13,16		7,9.3	9,11
15,19	ND				

GF3J33 — GlobalFiler™ — Item 1

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

GF68NM — GlobalFiler™ Direct (STRmix) — Item 1

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

GH7C28 — PowerPlex® Fusion 6C — Item 1

15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	9,10	13,16	15,26.2	7,9.3	9,11
15,19	ND	ND	ND		

GQX84R — GlobalFiler™ — Item 1

15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	NA			NA	

TABLE 1

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

GYAT2E — GlobalFiler™ Express (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	No results			No results	

H3BPDA — Investigator® 24plex (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	N/A				

HABUY6 — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14,14	15,18	9,11	N/A
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	N/A	N/A	15,26.2	7,9.3	9,11
15,19	N/A	N/A	N/A	N/A	

HQX8FH — GlobalFiler™ Direct (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

HTJU7J — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	---			---	

HTYUVL — Investigator® 24plex GO! (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14,14	15,18	9,11	N/A
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	N/A	N/A	15,26.2	7,9.3	9,11
15,19	N/A	N/A	N/A	N/A	

J6BRPA — PowerPlex® Fusion (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26	9,10	13,16		7,9.3	9,11
15,19	NR				

TABLE 1

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

Item 1 - STR Results

JA38XG — GlobalFiler™ — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

JLCWRC — GlobalFiler™ Express — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	No result			No result	

JMVFY4 — GlobalFiler™ IQC — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

JPH8U8 — PowerPlex® Fusion 6C — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	9,10	13,16	15,26.2	7,9.3	9,11
15,19	NR	NR	NR		

JR67DQ — PowerPlex® 5C — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	--
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26	9,10	13,16	--	7,9.3	9,11
15,19	--	--	--	--	

JTUUBC — Investigator® 24plex QS, FLEXPLEX — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	INC
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	NA	13,16	15,26.2	7,9.3	9,11
15,19	NA	NA	NA	NA	

JV66C3 — GlobalFiler™ Express — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

TABLE 1

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

K4CWMH — GlobalFiler™ (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

K69JVF — PowerPlex® Fusion (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26	9,10	13,16		7,9.3	9,11
15,19	NR				

KGK3BQ — PowerPlex® Fusion 6C, GlobalFiler™ (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	Not detected			Not detected	

KK3CUJ — GlobalFiler™ (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

KN3KZE — (Promega ESI17 Fast) (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
	18,25	14,14	15,18		
	11,14	13,15	21,23		12,12
15,16	12,14	29,30	11,15	X,X	
20,26			15,26.2	7,9.3	
15,19					

KUCAQM — VERIFILER Plus (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	12,12
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	9,10	13,16		7,9.3	9,11
15,19					

KXQ3QK — PowerPlex® Fusion 6C (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	9,10	13,16	15,26.2	7,9.3	9,11
15,19					

TABLE 1

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

KZUYT2   GlobalFiler™ (STRmix)

Item						
1	15,17.3	18,25	14	15,18	9,11	
	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

L7F8YC   GlobalFiler™

Item						
1	15,17.3	18,25	14	15,18	9,11	
	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19	No Result			No Result	

LAEPTX   GlobalFiler™

Item						
1	15,17.3	18,25	14	15,18	9,11	
	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

LDFNAH   GlobalFiler™

Item						
1	15,17.3	18,25	14	15,18	9,11	
	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

LF2DRA   PowerPlex® Fusion

Item						
1	15,17.3	18,25	14	15,18	9,11	
	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26	9,10	13,16		7,9.3	9,11
	15,19					

LGYQ9B   GlobalFiler™

Item						
1	15,17.3	18,25	14	15,18	9,11	
	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

LQ3NCE   GlobalFiler™

Item						
1	15,17.3	18,25	14	15,18	9,11	
	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

TABLE 1

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

WebCode / Item	Kit	D1S1656 etc.					

LZN323 — GlobalFiler™ (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	N/A
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	N/A	N/A	15,26.2	7,9.3	9,11
15,19	N/A	N/A	N/A	N/A	

M9EJWJ — GlobalFiler™ (Item 1)

15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	-			-	

MDR3H8 — Investigator® 24plex (Item 1)

15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	NA				

MKUCLE — GlobalFiler™ IQC (Item 1)

15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

MLQ999 — GlobalFiler™ Direct (Item 1)

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

MREV2T — PowerPlex® ESX 16 Fast (Item 1)

15,17.3	18,25	14,14	15,18		
	11,14	13,15	21,23		12,12
15,16	12,14	29,30	11,15	X,X	
20,26				7,9.3	
15,19					

MVTEZ2 — GlobalFiler™ (Item 1)

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

TABLE 1

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

Item 1 - STR Results

MYECF6 — PowerPlex® Fusion 6C — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	9,10	13,16	15,26.2	7,9.3	9,11
15,19	NR	NR	NR		

N7N2PW — GlobalFiler™ — Item 1

15,17.3	18,25	14,14	15,18	9,11	N/A
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	N/A	N/A	15,26.2	7,9.3	9,11
15,19	N/A	N/A	N/A	N/A	

NCGKWF — PowerPlex® ESI 17 Fast — Item 1

15,17.3	18,25	14,14	15,18		
	11,14	13,15	21,23		12,12
15,16	12,14	29,30	11,15	X,X	
20,26			15,26.2	7,9.3	
15,19					

NHGYJ3 — GlobalFiler™ — Item 1

15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

NK7VY2 — GlobalFiler™ — Item 1

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

NMWW34 — GlobalFiler™ — Item 1

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

NPYX32 — GlobalFiler™ — Item 1

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

TABLE 1

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

Item 1 - STR Results

NRATQE — GlobalFiler™ Direct (STRmix) — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

NWZCN3 — GlobalFiler™ — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

NYMXE6 — PowerPlex® Fusion — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26	9,10	13,16		7,9.3	9,11
15,19	NR				

NZNL3A — GlobalFiler™ — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

P2P9RJ — GlobalFiler™ — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

PFBJGA — GlobalFiler™ — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

PHGHKB — PowerPlex® Fusion 6C, GlobalFiler™ Express — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26	9,10	13,16	15,26.2	7,9.3	9,11
15,19					

TABLE 1

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

Item 1 - STR Results

PRPTCA — GlobalFiler™

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	NM			NM	

PUTQKH — GlobalFiler™ (STRmix)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

PUU66A — GlobalFiler™ Direct (STRmix)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

PWFQVC — NGM SElect Express

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18		
	11,14	13,15	21,23		12,12
15,16	12,14	29,30	11,15	X,X	
20,26			15,26.2	7,9.3	
15,19					

Q4AU88 — GlobalFiler™ Express

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	NM			NM	

Q736E9 — PowerPlex® Fusion

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	9,10	13,16		7,9.3	9,11
15,19	n.d.				

Q7YJMY — PowerPlex® Fusion 6C

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	9,10	13,16	15,26.2	7,9.3	9,11
15,19	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

Q98W62 — PowerPlex® Fusion 6C

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
1	15,17.3	18,25	14,14	15,18	9,11	
	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26	9,10	13,16	15,26.2	7,9.3	9,11
	15,19	NR	NR	NR		

QAZUET — GlobalFiler™

Item	col1	col2	col3	col4	col5	col6
1	15,17.3	18,25	14	15,18	9,11	
	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

QCPUYH — GlobalFiler™ Direct (STRmix)

Item	col1	col2	col3	col4	col5	col6
1	15,17.3	18,25	14	15,18	9,11	
	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

QDHR8P — GlobalFiler™

Item	col1	col2	col3	col4	col5	col6
1	15,17.3	18,25	14,14	15,18	9,11	
	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19	NR			NR	

QERG9V — GlobalFiler™

Item	col1	col2	col3	col4	col5	col6
1	15,17.3	18,25	14,14	15,18	9,11	
	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

QM9HK6 — GlobalFiler™ Express

Item	col1	col2	col3	col4	col5	col6
1	15,17.3	18,25	14	15,18	9,11	
	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

R24E6E — GlobalFiler™ (STRmix)

Item	col1	col2	col3	col4	col5	col6
1	15,17.3	18,25	14,14	15,18	9,11	
	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

TABLE 1

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

Item 1 - STR Results

R3WLBR — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	18,25	14,14	15,18	9,11	-
	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26	-	-	15,26.2	7,9.3	9,11
	15,19	-	-	-	-	

R4AE9F — GlobalFiler™ (GENEMAPPER ID-X1.5)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	18,25	14,14	15,18	9,11	-------
	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26	------	--------	15,26.2	7,9.3	9,11
	15,19	-------	-------	--------	-------	

RGEBQH — AmpFL STR NGM Detect

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	18,25	14,14	15,18		
		11,14	13,15	21,23		12,12
	15,16	12,14	29,30	11,15	X,X	
	20,26			15,26.2	7,9.3	
	15,19				-	

RJHQVK — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	18,25	14,14	15,18	9,11	
	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19	NR			NR	

RRDQBX — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	18,25	14,14	15,18	9,11	
	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26	9,10	13,16	15,26.2	7,9.3	9,11
	15,19	NR	NR	NR		

RU6PLP — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	18,25	14	15,18	9,11	
	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

RXNMDL — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	18,25	14,14	15,18	9,11	
	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19	NR			NR	

TABLE 1

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

T3UVXM — GlobalFiler™ (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

TF643Z — PowerPlex® Fusion 6C (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	N/A
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	9,10	13,16	15,26.2	7,9.3	9,11
15,19	NR	NR	NR	N/A	

TFZT3M — GlobalFiler™ (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

TJFXLX — PowerPlex® ESI17_FAST (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18		
	11,14	13,15	21,23		12,12
15,16	12,14	29,30	11,15	X,X	
20,26			15,26.2	7,9.3	
15,19					

TW7ZBX — PowerPlex® Fusion 6C, GlobalFiler™ (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	
10,[13],14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	Not Detected			Not Detected	

UCXC3Y — GlobalFiler™ (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

UQUQ3R — GlobalFiler™ (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

TABLE 1

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

Item 1 - STR Results

VYNWWT — GlobalFiler™ — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

VZY9L6 — ESI-17 Fast — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18		
	11,14	13,15	21,23		12,12
15,16	12,14	29,30	11,15	X,X	
20,26			15,26.2	7,9.3	
15,19					

W6B4VD — GlobalFiler™ (STRmix) — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

W6M3QM — GlobalFiler™ — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

WCQPW6 — PowerPlex® Fusion — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26	9,10	13,16		7,9.3	9,11
15,19	NR				

WKK6CZ — PowerPlex® Fusion — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	9,10	13,16		7,9.3	9,11
15,19	NR				

WRDWKA — GlobalFiler™ — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

TABLE 1

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

Item 1 - STR Results

WVZYMU PowerPlex® Fusion 6C

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
1	15,17.3	18,25	14,14	15,18	9,11	
	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26	9,10	13,16	15,26.2	7,9.3	9,11
	15,19	NR	NR	NR		

X3BK6W GlobalFiler™ (STRmix)

1	15,17.3	18,25	14	15,18	9,11	
	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

XACZRH GlobalFiler™

1	15,17.3	18,25	14	15,18	9,11	
	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

XPT8ZW GlobalFiler™ Express

1	15,17.3	18,25	14	15,18	9,11	
	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19	NM			NM	

XZAK6Y GlobalFiler™

1	15,17.3	18,25	14,14	15,18	9,11	
	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

Y86EPX Investigator® 24plex QS & GO!

1	15,17.3	18,25	14,14	15,18	9,11	N/A
	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26	N/A	N/A	15,26.2	7,9.3	9,11
	15,19	N/A	N/A	N/A	N/A	

YBN29P PowerPlex® Fusion 6C

1	15,17.3	18,25	14,14	15,18	9,11	
	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26	9,10	13,16	15,26.2	7,9.3	9,11
	15,19					

TABLE 1

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

Item 1 - STR Results

YBQL7Q — PowerPlex® Fusion 6C

15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26	9,10	13,16	15,26.2	7,9.3	9,11
15,19	ND	ND	ND		

Item: 1

YKQE9Q — GlobalFiler™

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

Item: 1

YKRJWU — GlobalFiler™ Express

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	NM			NM	

Item: 1

YU2D6M — GlobalFiler™

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

Item: 1

YUJ2B3 — GlobalFiler™ Express

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

Item: 1

Z8KHPN — GlobalFiler™

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

Item: 1

ZAAR2B — GlobalFiler™

15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

Item: 1

TABLE 1

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

ZCFR6B — GlobalFiler™

15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	N/D			N/D	

Item 1

ZMBVBQ — GlobalFiler™ (STRMix)

15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X,X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

Item 1

ZMZG32 — GlobalFiler™ Direct

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

Item 1

ZQ2H3Y — GlobalFiler™

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19	No results			No results	

Item 1

ZR8CEP — GlobalFiler™

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

Item 1

ZW3WNZ — GlobalFiler™ Direct

15,17.3	18,25	14	15,18	9,11	
10,14	11,14	13,15	21,23	9	12
15,16	12,14	29,30	11,15	X	10,12
20,26			15,26.2	7,9.3	9,11
15,19					

Item 1

ZXUAET — PowerPlex® Fusion 6C

15,17.3	18,25	14,14	15,18	9,11	
10,14	11,14	13,15	21,23	9,9	12,12
15,16	12,14	29,30	11,15	X	10,12
20,26	9,10	13,16	15,26.2	7,9.3	9,11
15,19					

TABLE 1

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

Item 1 - STR Results

ZYPHE3	Investigator® 24plex QS					
	15,17.3	18,25	14,14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9,9	12,12
	15,16	12,14	29,30	11,15	X,X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

ZZK6MY	GlobalFiler™					
	15,17.3	18,25	14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

ZZZKYF	GlobalFiler™					
	15,17.3	18,25	14	15,18	9,11	
1	10,14	11,14	13,15	21,23	9	12
	15,16	12,14	29,30	11,15	X	10,12
	20,26			15,26.2	7,9.3	9,11
	15,19					

TABLE 1

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

Item 2 - STR Results

27MMNX PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	
2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7		7,9.3	8,8
	15,16	10				

29CZ4U GlobalFiler™

2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

29DNRZ GlobalFiler™ Direct

2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

2A4YEM GlobalFiler™ Express (STRmix)

2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

2PKPMM GlobalFiler™

2	12,15.3	19,21	10,14	15,15	11,11	NA
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	NA	NA	17,28.2	7,9.3	8,8
	15,16	10	NA	NA	2	

2R422H GlobalFiler™

2	12,15.3	19,21	10,14	15,15	11,11	N/A
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	N/A	N/A	17,28.2	7,9.3	8,8
	15,16	10	N/A	N/A	2	

33KV8K GlobalFiler™ Express

2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

TABLE 1

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

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
368REB GlobalFiler™						
2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	
3DZXE4 GlobalFiler™						
2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
3ERXAT GlobalFiler™						
2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
3F7HZH GlobalFiler™						
2	12,15.3	19,21	10,14	15,15	11,11	NA
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	NA	NA	17,28.2	7,9.3	8,8
	15,16	10	NA	NA	2	
3GEKZV GlobalFiler™ Express						
2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
3NXFR7 GlobalFiler™ Express						
2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	
3P9PUW GlobalFiler™						
2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

TABLE 1

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

Item 2 - STR Results

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3TDDDT	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
3TGQ6V	PowerPlex® Fusion					
	12,15.3	19,21	10,14	15,15	11,11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7		7,9.3	8,8
	15,16	10				
3YY7PR	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
3ZD8H2	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
48R2YV	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
4DBLAH	GlobalFiler™					
	12,15.3	19,21	10,14	15,15	11,11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	
4FK9KM	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

TABLE 1

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

Item 2 - STR Results

4HAF9P — PowerPlex® Fusion 6C

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7	17,28.2	7,9.3	8,8
	15,16	10	19	16		

63T37H — GlobalFiler™

Item						
2	12,15.3	19,21	10,14	15,15	11,11	N/A
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	N/A	N/A	17,28.2	7,9.3	8,8
	15,16	10	N/A	N/A	2	

6H3A7F — PowerPlex® Fusion 6C

Item						
2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7	17,28.2	7,9.3	8,8
	15,16	10	19	16		

6HKM2K — PowerPlex® Fusion 6C

Item						
2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7	17,28.2	7,9.3	8,8
	15,16	10	19	16		

6KVF4Y — GlobalFiler™ Direct (STRmix)

Item						
2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

6QUM6E — GlobalFiler™

Item						
2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

6XGYEV — GlobalFiler™

Item						
2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

TABLE 1

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

Item 2 - STR Results

7CZW3W — GlobalFiler™ Direct (Item 2)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

7QWB3P — PowerPlex® Fusion (Item 2)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7		7,9.3	8,8
15,16	10				

8DLK2W — GlobalFiler™ Express (Item 2)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

8GLAGP — GlobalFiler™ Direct (Item 2)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

8LED42 — GlobalFiler™ (STRmix) (Item 2)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

93XQVY — GlobalFiler™ (Item 2)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

97EXFR — GlobalFiler™ (Item 2)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

TABLE 1

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

Item 2 - STR Results

9X67YP — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

9X8GP8 — Investigator® 24plex

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15.3	19,21	10,14	15	11	NT
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25	NT	NT	17,28.2	7,9.3	8
	15,16	10	NT	NT	NT	

9XMHQN — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15.3	19,21	10,14	15,15	11,11	--
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	--	--	17,28.2	7,9.3	8,8
	15,16	10	--	--	2	

A3FGPX — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

A4E66U — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

A7ZQVV — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

AAEJTF — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

TABLE 1

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

Item 2 - STR Results

AHU399	PowerPlex® 21					
	12,15.3	19,21		15,15	11,11	11,19
2	8,10	13,16		18,20	12,13	8,9
	13,18	14,14	30,31		X,Y	10,12
	22,25	12,12	5,7		7,9.3	8,8
	15,16					
AMLE6Q	GlobalFiler™					
	12,15.3	19,21	10,14	15,15	11,11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	
APPAM9	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
AU88E6	GlobalFiler™					
	12,15.3	19,21	10,14	15,15	11,11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	
AZPVT8	Identifiler® Plus					
		19,21		15,15	11,11	
2	8,10	13,16			12,13	8,9
	13,18	14,14	30,31		X,Y	10,12
	22,25				7,9.3	8,8
	15,16					
B6JYFJ	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
B87XA9	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

TABLE 1

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

Item 2 - STR Results

BBQK9M	GlobalFiler™					
	12,15.3	19,21	10,14	15,15	11,11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	
BDD6AK	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
BNCXKW	GlobalFiler™					
	12,15.3	19,21	10,14	15,15	11,11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	
BU4X6K	GlobalFiler™ Direct					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
BYBTF8	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
CA6DFB	GlobalFiler™ Express					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
CAE4TN	GlobalFiler™ Direct					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

TABLE 1

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

Item 2 - STR Results

CBJVJG — PowerPlex® 6C — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25	12	5,7	17,28.2	7,9.3	8
15,16	10	19	16		

CDPVKV — GlobalFiler™ — Item 2

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

CFXFGP — PowerPlex® Fusion 5C — Item 2

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25	12	5,7		7,9.3	8
15,16	10				

CKAEYA — GlobalFiler™ — Item 2

12,15.3	19,21	10,14	15,15	11,11	NA
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	NA	NA	17,28.2	7,9.3	8,8
15,16	10	NA	NA	2	

CMWX3T — GlobalFiler™ — Item 2

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

CT42XF — GlobalFiler™ — Item 2

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

D74MQB — GlobalFiler™ — Item 2

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

TABLE 1

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

Item 2 - STR Results

D7NLN9	GlobalFiler™					
	12,15.3	19,21	10,14	15,15	11,11	NA
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	NA	NA	17,28.2	7,9.3	8,8
	15,16	10	NA	NA	2	
D8WKYG	PowerPlex® Fusion					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25	12	5,7		7,9.3	8
	15,16	10				
D9PMQQ	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
DLZY4K	GlobalFiler™					
	12,15.3	19,21	10,14	15,15	11,11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	
DNJ23D	PowerPlex® Fusion 5C					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25	12	5,7		7,9.3	8
	15,16	10				
DV3WUN	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
DWD7VE	PowerPlex® Fusion 5C					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25	12	5,7		7,9.3	8
	15,16	10				

TABLE 1

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

Item 2 - STR Results

DY6WUL — ESI-17

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15		
	13,16	13,15	18,20		8,9
13,18	14,14	30,31	11,15	X,Y	
22,25			17,28.2	7,9.3	
15,16					

EBAVBC — PowerPlex® Fusion 6C

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16		

EBXY8T — GlobalFiler™

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

EEVWLK — GlobalFiler™

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

EF9YGD — PowerPlex® Fusion

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25	12	5,7		7,9.3	8
15,16	10				

EJNPL8 — GlobalFiler™

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

EPBAUU — GlobalFiler™

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

TABLE 1

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

Item 2 - STR Results

EQRN24 — GlobalFiler™ (Item 2)

D1S1656/D7S820/D18S51/FGA/vWA	D2S1338/D8S1179/D19S433/Penta D/DYS391	D2S441/D10S1248/D21S11/Penta E/DYS570	D3S1358/D12S391/D22S1045/SE33/DYS576	D5S818/D13S317/Amelogenin/TH01/Y Indel	D6S1043/D16S539/CSF1PO/TPOX
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10,0			2,0	

F2Z3NH — GlobalFiler™ Express (Item 2)

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

FGG4JM — GlobalFiler™ (TrueAllele) (Item 2)

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

FKVVAF — Investigator® 24plex QS, FLEX PLEX 27 (Item 2)

12,15.3	19,21	10,14	15,15	11,11	11,19
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	N/A	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16	N/A	

FRZV7H — PowerPlex® Fusion (Item 2)

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7		7,9.3	8,8
15,16	10				

FU4UEP — PowerPlex® Fusion 6C (Item 2)

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16		

G22U6G — GlobalFiler™ Express (Item 2)

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

TABLE 1

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

Item 2 - STR Results

G6FKAC   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

Item 2

G6KX2E   PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7		7,9.3	8,8
15,16	10				

Item 2

GF3J33   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

Item 2

GF68NM   GlobalFiler™ Direct (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

Item 2

GH7C28   PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16		

Item 2

GQX84R   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

Item 2

GYAT2E   GlobalFiler™ Express

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

Item 2

TABLE 1

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

H3BPDA — Investigator® 24plex — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10				

HABUY6 — GlobalFiler™ — Item 2

12,15.3	19,21	10,14	15,15	11,11	N/A
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	N/A	N/A	17,28.2	7,9.3	8,8
15,16	10	N/A	N/A	2	

HQX8FH — GlobalFiler™ Direct — Item 2

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

HTJU7J — GlobalFiler™ — Item 2

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

HTYUVL — Investigator® 24plex GO! — Item 2

12,15.3	19,21	10,14	15,15	11,11	N/A
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	N/A	N/A	17,28.2	7,9.3	8,8
15,16	10	N/A	N/A	N/A	

J6BRPA — PowerPlex® Fusion — Item 2

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25	12	5,7		7,9.3	8
15,16	10				

JA38XG — GlobalFiler™ — Item 2

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

TABLE 1

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

Item 2 - STR Results

JLCWRC — GlobalFiler™ Express

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

(Item 2)

JMVFY4 — GlobalFiler™ IQC

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

(Item 2)

JPH8U8 — PowerPlex® Fusion 6C

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16		

(Item 2)

JR67DQ — PowerPlex® 5C

12,15.3	19,21	10,14	15	11	--
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25	12	5,7	--	7,9.3	8
15,16	10	--	--	--	

(Item 2)

JTUUBC — Investigator® 24plex GO

12,15.3	19,21	10,14	15,15	11,11	NA
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	NA	NA	17,28.2	7,9.3	8,8
15,16	10	NA	NA	NA	

(Item 2)

JV66C3 — GlobalFiler™ Express

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

(Item 2)

K4CWMH — GlobalFiler™

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

(Item 2)

TABLE 1

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

K69JVF — PowerPlex® Fusion

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25	12	5,7		7,9.3	8
15,16	10				

(Item 2)

KGK3BQ — PowerPlex® Fusion 6C, GlobalFiler™

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

(Item 2)

KK3CUJ — GlobalFiler™

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

(Item 2)

KN3KZE — (Promega ESI17 Fast)

12,15.3	19,21	10,14	15,15		
	13,16	13,15	18,20		8,9
13,18	14,14	30,31	11,15	X,Y	
22,25			17,28.2	7,9.3	
15,16					

(Item 2)

KUCAQM — VERIFILER Plus

12,15.3	19,21	10,14	15,15	11,11	11,19
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7		7,9.3	8,8
15,16				2	

(Item 2)

KXQ3QK — PowerPlex® Fusion 6C

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16		

(Item 2)

KZUYT2 — GlobalFiler™ (STRmix)

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

TABLE 1

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

WebCode / Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
L7F8YC GlobalFiler™ 2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
LAEPTX GlobalFiler™ 2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
LDFNAH GlobalFiler™ 2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
LF2DRA PowerPlex® Fusion 2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25	12	5,7		7,9.3	8
	15,16	10				
LGYQ9B GlobalFiler™ 2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
LQ3NCE GlobalFiler™ 2	12,15.3	19,21	10,14	15	11	2
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
LZN323 GlobalFiler™ 2	12,15.3	19,21	10,14	15,15	11,11	N/A
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	N/A	N/A	17,28.2	7,9.3	8,8
	15,16	10	N/A	N/A	2	

Printed: January 04, 2023   (50)

TABLE 1

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

M9EJWJ — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

MDR3H8 — Investigator® 24plex — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10				

MKUCLE — GlobalFiler™ IQC — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

MLQ999 — GlobalFiler™ Direct — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

MREV2T — PowerPlex® ESX 16 Fast — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15		
	13,16	13,15	18,20		8,9
13,18	14,14	30,31	11,15	X,Y	
22,25				7,9.3	
15,16					

MVTEZ2 — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

MYECF6 — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16		

TABLE 1

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

Item 2 - STR Results

N7N2PW   GlobalFiler™

12,15.3	19,21	10,14	15,15	11,11	N/A
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	N/A	N/A	17,28.2	7,9.3	8,8
15,16	10	N/A	N/A	2	

(Item 2)

NCGKWF   PowerPlex® ESI 17 Fast

12,15.3	19,21	10,14	15,15		
	13,16	13,15	18,20		8,9
13,18	14,14	30,31	11,15	X,Y	
22,25			17,28.2	7,9.3	
15,16					

(Item 2)

NHGYJ3   GlobalFiler™

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

(Item 2)

NK7VY2   GlobalFiler™

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

(Item 2)

NMWW34   GlobalFiler™

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

(Item 2)

NPYX32   GlobalFiler™

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

(Item 2)

NRATQE   GlobalFiler™ Direct

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

(Item 2)

TABLE 1

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

NWZCN3 — GlobalFiler™

Item						
2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

NYMXE6 — PowerPlex® Fusion

Item						
2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25	12	5,7		7,9.3	8
	15,16	10				

NZNL3A — GlobalFiler™

Item						
2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

P2P9RJ — GlobalFiler™

Item						
2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

PFBJGA — GlobalFiler™

Item						
2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

PHGHKB — PowerPlex® Fusion 6C

Item						
2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25	12	5,7	17,28.2	7,9.3	8
	15,16	10	19	16		

PRPTCA — GlobalFiler™

Item						
2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

TABLE 1

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

WebCode / Item						
PUTQKH GlobalFiler™ (STRmix)						
2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	
PUU66A GlobalFiler™ Direct (STRmix)						
2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
PWFQVC NGM SElect Express						
2	12,15.3	19,21	10,14	15,15		
		13,16	13,15	18,20		8,9
	13,18	14,14	30,31	11,15	X,Y	
	22,25			17,28.2	7,9.3	
	15,16					
Q4AU88 GlobalFiler™ Express						
2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
Q736E9 PowerPlex® Fusion						
2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7		7,9.3	8,8
	15,16	10				
Q7YJMY PowerPlex® Fusion 6C						
2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7	17,28.2	7,9.3	8,8
	15,16	10	19	16		
Q98W62 PowerPlex® Fusion 6C						
2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7	17,28.2	7,9.3	8,8
	15,16	10	19	16		

TABLE 1

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

Item 2 - STR Results

QAZUET	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

QCPUYH	GlobalFiler™ Direct					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

QDHR8P	GlobalFiler™					
	12,15.3	19,21	10,14	15,15	11,11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

QERG9V	PowerPlex®, GlobalFiler™					
	12,15.3	19,21	10,14	15,15	11,11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

QM9HK6	GlobalFiler™ Express					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

R24E6E	GlobalFiler™ (STRmix)					
	12,15.3	19,21	10,14	15,15	11,11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

R3WLBR	GlobalFiler™					
	12,15.3	19,21	10,14	15,15	11,11	-
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	-	-	17,28.2	7,9.3	8,8
	15,16	10	-	-	2	

TABLE 1

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

Item 2 - STR Results

R4AE9F — GlobalFiler™ (GENEMAPPER ID-X1.5)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

RGEBQH — (AmpFlSTR NGM Detect)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15.3	19,21	10,14	15,15		
		13,16	13,15	18,20		8,9
	13,18	14,14	30,31	11,15	X,Y	
	22,25			17,28.2	7,9.3	
	15,16				2	

RJHQVK — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

RRDQBX — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7	17,28.2	7,9.3	8,8
	15,16	10	19	16		

RU6PLP — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

RXNMDL — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

T3UVXM — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

TABLE 1

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

Item 2 - STR Results

TF643Z — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	N/A
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16	N/A	

Item 2

TFZT3M — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

Item 2

TJFXLX — PowerPlex® ESI17_FAST

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15		
	13,16	13,15	18,20		8,9
13,18	14,14	30,31	11,15	X,Y	
22,25			17,28.2	7,9.3	
15,16					

Item 2

TW7ZBX — PowerPlex® Fusion 6C, GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

Item 2

UCXC3Y — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

Item 2

UQUQ3R — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

Item 2

VYNWWT — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

Item 2

TABLE 1

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

VZY9L6 — ESI-17 Fast (Item 2)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15		
	13,16	13,15	18,20		8,9
13,18	14,14	30,31	11,15	X,Y	
22,25			17,28.2	7,9.3	
15,16					

W6B4VD — GlobalFiler™ (STRmix) (Item 2)

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

W6M3QM — GlobalFiler™ (Item 2)

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

WCQPW6 — PowerPlex® Fusion (Item 2)

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25	12	5,7		7,9.3	8
15,16	10				

WKK6CZ — PowerPlex® Fusion (Item 2)

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7		7,9.3	8,8
15,16	10				

WRDWKA — GlobalFiler™ (Item 2)

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

WVZYMU — PowerPlex® Fusion 6C (Item 2)

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16		

TABLE 1

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

Item 2 - STR Results

X3BK6W — GlobalFiler™ (STRmix), Item 2

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

XACZRH — GlobalFiler™, Item 2

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

XPT8ZW — GlobalFiler™ Express, Item 2

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

XZAK6Y — GlobalFiler™, Item 2

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

Y86EPX — Investigator® 24plex QS & GO!, Item 2

12,15.3	19,21	10,14	15,15	11,11	N/A
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	N/A	N/A	17,28.2	7,9.3	8,8
15,16	10	N/A	N/A	N/A	

YBN29P — PowerPlex® Fusion 6C, Item 2

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16		

YBQL7Q — PowerPlex® Fusion 6C, Item 2

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16		

TABLE 1

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

Item 2 - STR Results

YKQE9Q — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

YKRJWU — GlobalFiler™ Express — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

YU2D6M — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

YUJ2B3 — GlobalFiler™ Express — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

Z8KHPN — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

ZAAR2B — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

ZCFR6B — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

TABLE 1

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

Item 2 - STR Results

ZMBVBQ — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

Item: 2

ZMZG32 — GlobalFiler™ Direct

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

Item: 2

ZQ2H3Y — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

Item: 2

ZR8CEP — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

Item: 2

ZW3WNZ — GlobalFiler™ Direct

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

Item: 2

ZXUAET — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16		

Item: 2

ZYPHE3 — Investigator® 24plex QS

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10				

Item: 2

TABLE 1

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

ZZK6MY	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

ZZZKYF	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
2	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

TABLE 1

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

Item 3 - STR Results

27MMNX	PowerPlex® Fusion					
	12,15.3	19,21	10,14	15,15	11,11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7		7,9.3	8,8
	15,16	10				
29CZ4U	GlobalFiler™					
	12,15.3	19,21	10,14	15,15	11,11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	
29DNRZ	GlobalFiler™ (STRmix)					
	12,15.3	19,21	10,14	15	11	
3	8,10	13,16,17	13,15	18,20	12,13	8,9
	13,18	12,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
2A4YEM	GlobalFiler™ (STRmix)					
	12,15.3	19,21	10,14	15	11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
2PKPMM	GlobalFiler™					
	12,15.3	19,21	10,14	15,15	11,11	NA
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	NA	NA	17,28.2	7,9.3	8,8
	15,16	10	NA	NA	2	
2R422H	GlobalFiler™					
	12,15.3	19,21	10,14	15,15	11,11	N/A
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	N/A	N/A	17,28.2	7,9.3	8,8
	15,16	10	N/A	N/A	2	
33KV8K	GlobalFiler™ (STRmix)					
	12,15.3	19,21	10,14	15	11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

TABLE 1

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

Item 3 - STR Results

368REB	GlobalFiler™					
	12,15.3	19,21	10,14	15,15	11,11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	
3A3EEQ	PowerPlex® Fusion 6C					
	12,15.3	19,21	10,14	15,15	11,11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7	17,28.2	7,9.3	8,8
	15,16	10	19	16		
3ERXAT	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
3F7HZH	GlobalFiler™					
	12,15.3	19,21	10,14	15,15	11,11	NA
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	NA	NA	17,28.2	7,9.3	8,8
	15,16	10	NA	NA	2	
3GEKZV	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
3NXFR7	GlobalFiler™					
	12,15.3	19,21	10,14	15,15	11,11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	
3P9PUW	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

TABLE 1

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

3TDDDT — GlobalFiler™ (STRmix) — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

3TGQ6V — PowerPlex® Fusion — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7		7,9.3	8,8
15,16	10				

3YY7PR — GlobalFiler™ (STRmix) — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

3ZD8H2 — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

48R2YV — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

4DBLAH — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

4FK9KM — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

TABLE 1

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

4HAF9P — PowerPlex® Fusion 6C

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16		

(Item 3)

63T37H — GlobalFiler™

12,15.3	19,21	10,14	15,15	11,11	N/A
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	N/A	N/A	17,28.2	7,9.3	8,8
15,16	10	N/A	N/A	2	

(Item 3)

6H3A7F — PowerPlex® Fusion 6C

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16		

(Item 3)

6HKM2K — PowerPlex® Fusion 6C

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16		

(Item 3)

6KVF4Y — GlobalFiler™ (STRmix)

12,15.3	19,21	10,12,14	15	11	
8,10,11	11,13,16	13,15	18,20	12,13	8,9
13,18	12,14	30,31	11,15	X,Y	8,10,12
22,25			17,28.2	7,8,9.3	8
15,16	10			2	

(Item 3)

6QUM6E — GlobalFiler™

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

(Item 3)

6XGYEV — GlobalFiler™

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

(Item 3)

TABLE 1

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

7CZW3W   GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

7QWB3P   PowerPlex® Fusion

Item						
3	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7		7,9.3	8,8
	15,16	10				

8DLK2W   GlobalFiler™

Item						
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

8GLAGP   GlobalFiler™   (STRmix)

Item						
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14.2	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

8LED42   GlobalFiler™

Item						
3	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

93XQVY   GlobalFiler™

Item						
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

97EXFR   GlobalFiler™

Item						
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

TABLE 1

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

Item 3 - STR Results

9X67YP — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

(Item 3)

9X8GP8 — Investigator® 24plex

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	NT
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25	NT	NT	17,28.2	7,9.3	8
15,16	10	NT	NT	NT	

(Item 3)

9XMHQN — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	--
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	--	--	17,28.2	7,9.3	8,8
15,16	10	--	--	2	

(Item 3)

A3FGPX — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

(Item 3)

A7ZQVV — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

(Item 3)

AHU399 — PowerPlex® 21 (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21		15,15	11,11	11,19
8,10	13,16		18,20	12,13	8,9
13,18	14,14	30,31		X,Y	10,12
22,25	12,12	5,7		7,9.3	8,8
15,16					

(Item 3)

AMLE6Q — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

(Item 3)

TABLE 1

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

APPAM9 — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

AU88E6 — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

AZPVT8 — Identifiler® Plus — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
	19,21		15,15	11,11	
8,10	13,16			12,13	8,9
13,18	14,14	30,31		X,Y	10,12
22,25				7,9.3	8,8
15,16					

B6JYFJ — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

B87XA9 — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

BBQK9M — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

BDD6AK — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

TABLE 1

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

Item 3 - STR Results

BNCXKW — GlobalFiler™ (STRmix), Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

BU4X6K — GlobalFiler™, Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

BYBTF8 — GlobalFiler™, Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

CA6DFB — GlobalFiler™, Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

CBJVJG — PowerPlex® 6C, Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25	12	5,7	17,28.2	7,9.3	8
15,16	10	19	16		

CDPVKV — GlobalFiler™, Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

CFXFGP — PowerPlex® Fusion 5C, Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25	12	5,7		7,9.3	8
15,16	10				

TABLE 1

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

Item 3 - STR Results

CKAEYA — GlobalFiler™ (Item 3)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	NA
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	NA	NA	17,28.2	7,9.3	8,8
15,16	10	NA	NA	2	

CMWX3T — GlobalFiler™ (Item 3)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

CT42XF — GlobalFiler™ (Item 3)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

D74MQB — GlobalFiler™ (Item 3)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

D7NLN9 — GlobalFiler™ (Item 3)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	NA
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	NA	NA	17,28.2	7,9.3	8,8
15,16	10	NA	NA	2	

D8WKYG — PowerPlex® Fusion (Item 3)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25	12	5,7		7,9.3	8
15,16	10				

D9PMQQ — GlobalFiler™ (Item 3)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

TABLE 1

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

Item 3 - STR Results

DNJ23D PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25	12	5,7		7,9.3	8
	15,16	10				

DV3WUN GlobalFiler™

3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

DWD7VE PowerPlex® Fusion 5C

3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25	12	5,7		7,9.3	8
	15,16	10				

DY6WUL ESI-17

3	12,15.3	19,21	10,14	15,15		
		13,16	13,15	18,20		8,9
	13,18	14,14	30,31	11,15	X,Y	
	22,25			17,28.2	7,9.3	
	15,16					

EBAVBC PowerPlex® Fusion 6C

3	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7	17,28.2	7,9.3	8,8
	15,16	10	19	16		

EBXY8T GlobalFiler™ (STRMIX)

3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

EEVWLK GlobalFiler™

3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

TABLE 1

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

Item 3 - STR Results

EF9YGD — PowerPlex® Fusion — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25	12	5,7		7,9.3	8
15,16	10				

EJNPL8 — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

EPBAUU — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

EQRN24 — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,NR
15,16	10,0			2,0	

F2Z3NH — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

FGG4JM — GlobalFiler™ (TrueAllele) — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

FKVVAF — Investigator® 24plex QS — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	N/A
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	N/A	N/A	17,28.2	7,9.3	8,8
15,16	10	N/A	N/A	N/A	

TABLE 1

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

Item 3 - STR Results

FRZV7H — PowerPlex® Fusion — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7		7,9.3	8,8
15,16	10				

FU4UEP — PowerPlex® Fusion 6C — Item 3

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16		

G22U6G — GlobalFiler™ — Item 3

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

G6FKAC — GlobalFiler™ (STRmix) — Item 3

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

G6KX2E — PowerPlex® Fusion — Item 3

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7		7,9.3	8,8
15,16	10				

GF3J33 — GlobalFiler™ — Item 3

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

GF68NM — GlobalFiler™ (STRmix) — Item 3

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15,[16]	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

TABLE 1

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

GH7C28 — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7	17,28.2	7,9.3	8,8
	15,16	10	19	16		

GQX84R — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

GYAT2E — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

H3BPDA — Investigator® 24plex (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10				

HABUY6 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,[15.3]	19,21	10,14	15,15	11,11	N/A
	8,10	13,16	[13],[15]	18,20	12,13	8,9
	13,18	14,14	30,31	11,[15]	X,Y	10,12
	22,25	N/A	N/A	17,28.2	7,9.3	8,8
	15,16	10	N/A	N/A	2	

HTJU7J — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

HTYUVL — Investigator® 24plex QS

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,15.3	19,21	10,14	15,15	11,11	N/A
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	N/A	N/A	INC	7,9.3	8,8
	15,16	10	N/A	N/A	N/A	

TABLE 1

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

Item 3 - STR Results

J6BRPA — PowerPlex® Fusion

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25	12	5,7		7,9.3	8
	15,16	10				

JA38XG — GlobalFiler™

Item						
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

JLCWRC — GlobalFiler™ (STRmix)

Item						
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

JMVFY4 — GlobalFiler™ IQC

Item						
3	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

JPH8U8 — PowerPlex® Fusion 6C

Item						
3	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7	17,28.2	7,9.3	8,8
	15,16	10	19	16		

JR67DQ — PowerPlex® 5C

Item						
3	12,15.3	19,21	10,14	15	11	--
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25	12	5,7	--	7,9.3	8
	15,16	10	--	--	--	

JTUUBC — Investigator® 24plex QS

Item						
3	12,15.3	19,21	10,14	15,15	11,11	NA
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	NA	NA	17,28.2	7,9.3	8,8
	15,16	10	NA	NA	NA	

TABLE 1

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

JV66C3   GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,15.3	19,21	10,14	15	11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

K4CWMH   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,15.3	19,21	10,14	15	11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

K69JVF   PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,15.3	19,21	10,14	15	11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25	12	5,7		7,9.3	8
	15,16	10				

KGK3BQ   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,15.3	19,21	10,14	15,15	11,11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

KK3CUJ   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,15.3	19,21	10,14	15,15	11,11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

KN3KZE   (Promega ESI17 Fast)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,15.3	19,21	10,14	15,15		
3		13,16	13,15	18,20		8,9
	13,18	14,14	30,31	11,15	X,Y	
	22,25			17,28.2	7,9.3	
	15,16					

KUCAQM   VERIFILER Plus

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,15.3	19,21	10,14	15,15	11,11	11,19
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7		7,9.3	8,8
	15,16				2	

TABLE 1

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

KXQ3QK — PowerPlex® Fusion 6C — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16		

KZUYT2 — GlobalFiler™ (STRmix) — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

LAEPTX — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

LF2DRA — PowerPlex® Fusion — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25	12	5,7		7,9.3	8
15,16	10				

LGYQ9B — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

LQ3NCE — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

LZN323 — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	N/A
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	N/A	N/A	17,28.2	7,9.3	8,8
15,16	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 3 - STR Results

M89HA7 — PowerPlex® Fusion 6C — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16		

M9EJWJ — GlobalFiler™ — Item 3

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

MDR3H8 — Investigator® 24plex (STRmix) — Item 3

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10				

MKUCLE — GlobalFiler™ IQC — Item 3

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

MLQ999 — GlobalFiler™ — Item 3

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

MREV2T — PowerPlex® ESX 16 Fast — Item 3

12,15.3	19,21	10,14	15,15		
	13,16	13,15	18,20		8,9
13,18	14,14	30,31	11,15	X,Y	
22,25				7,9.3	
15,16					

MVTEZ2 — GlobalFiler™ — Item 3

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

TABLE 1

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

Item 3 - STR Results

MYECF6 — PowerPlex® Fusion 6C (Item 3)

D1S1656 / ...	D2S1338 / ...	D2S441 / ...	D3S1358 / ...	D5S818 / ...	D6S1043 / ...
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16		

N7N2PW — GlobalFiler™ (Item 3)

12,15.3	19,21	10,14	15,15	11,11	N/A
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	N/A	N/A	17,28.2	7,9.3	8,8
15,16	10	N/A	N/A	2	

NCGKWF — PowerPlex® ESI 17 Fast (Item 3)

12,15.3	19,21	10,14	15,15		
	13,16	13,15	18,20		8,9
13,18	14,14	30,31	11,15	X,Y	
22,25			17,28.2	7,9.3	
15,16					

NHGYJ3 — GlobalFiler™ (Item 3)

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

NK7VY2 — GlobalFiler™ (Item 3)

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

NMWW34 — GlobalFiler™ (Item 3)

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

NPYX32 — GlobalFiler™ (Item 3)

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

TABLE 1

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

Item 3 - STR Results

NRATQE — GlobalFiler™

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

NWZCN3 — GlobalFiler™

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

NYMXE6 — PowerPlex® Fusion

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25	12	5,7		7,9.3	8
15,16	10				

NZNL3A — GlobalFiler™

12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

P2P9RJ — GlobalFiler™

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

PFBJGA — GlobalFiler™

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

PHGHKB — PowerPlex® Fusion 6C (STRmix)

12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25	12	5,7	17,28.2	7,9.3	8
15,16	10	19	16		

TABLE 1

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

Item 3 - STR Results

PRPTCA	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
PUTQKH	GlobalFiler™ (STRmix Male Suspect LR = 1.08 E27)					
	12,15.3	19,21	10,14	15,15	11,11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	
PUU66A	GlobalFiler™ (STRmix)					
	12,15.3	19,21	10,14	15	11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,26.2,28.2	7,9.3	8
	15,16	10			2	
PWFQVC	NGM SElect					
	12,15.3	19,21	10,14	15,15		
3		13,16	13,15	18,20		8,9
	13,18	14,14	30,31	11,15	X,Y	
	22,25			17,28.2	7,9.3	
	15,16					
Q4AU88	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
Q736E9	PowerPlex® Fusion					
	12,15.3	19,21	10,14	15,15	11,11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7		7,9.3	8,8
	15,16	10				
Q7YJMY	PowerPlex® Fusion 6C					
	12,15.3	19,21	10,14	15,15	11,11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7	17,28.2	7,9.3	8,8
	15,16	10	19	16		

TABLE 1

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

Item 3 - STR Results

Q98W62 — PowerPlex® Fusion 6C

D1S1656 / …	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16		

QAZUET — GlobalFiler™

D1S1656 / …	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

QCPUYH — GlobalFiler™

D1S1656 / …	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31,32	11,15	X,Y	10,12
22,23,25			17,28.2	7,9.3	8
15,16	10			2	

QDHR8P — GlobalFiler™

D1S1656 / …	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

QERG9V — PowerPlex®, GlobalFiler™

D1S1656 / …	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

QM9HK6 — GlobalFiler™ (STRmix)

D1S1656 / …	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

R24E6E — GlobalFiler™

D1S1656 / …	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

TABLE 1

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

Item 3 - STR Results

R3WLBR — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	-
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	-	-	17,28.2	7,9.3	8,8
15,16	10	-	-	2	

R4AE9F — GlobalFiler™ (GENEMAPPER ID-X1.5) — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

RGEBQH — AmpFlSTR NGM Detect — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15		
	13,16	13,15	18,20		8,9
13,18	14	30,31	11,15	X,Y	
22,25			17,28.2	7,9.3	
15,16				2	

RJHQVK — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

RRDQBX — PowerPlex® Fusion 6C — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16		

RU6PLP — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

RXNMDL — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

TABLE 1

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

Item 3 - STR Results

T3UVXM — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

T6H6AA — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

TF643Z — PowerPlex® Fusion 6C — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	N/A
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25	12,12	5,7	17,28.2	7,9.3	8,8
15,16	10	19	16	N/A	

TFZT3M — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

TJFXLX — PowerPlex® ESI17_FAST — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15		
	13,16	13,15	18,20		8,9
13,18	14,14	30,31	11,15	X,Y	
22,25			17,28.2	7,9.3	
15,16					

TW7ZBX — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

UCXC3Y — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

TABLE 1

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

Item 3 - STR Results

UQUQ3R — GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

VYNWWT — GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

VZY9L6 — ESI-17 Fast

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3	12,15.3	19,21	10,14	15,15		
		13,16	13,15	18,20		8,9
	13,18	14,14	30,31	11,15	X,Y	
	22,25			17,28.2	7,9.3	
	15,16					

W6B4VD — GlobalFiler™ (STRmix)

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

W6M3QM — GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

WCQPW6 — PowerPlex® Fusion

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25	12	5,7		7,9.3	8
	15,16	10				

WKK6CZ — PowerPlex® Fusion

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7		7,9.3	8,8
	15,16	10				

TABLE 1

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

Item 3 - STR Results

WRDWKA	GlobalFiler™ (STRmix)					
	12,15.3	19,21	10,14	15,15	11,11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

WVZYMU	PowerPlex® Fusion 6C					
	12,15.3	19,21	10,14	15,15	11,11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7	17,28.2	7,9.3	8,8
	15,16	10	19	16		

X3BK6W	GlobalFiler™ (STRmix)					
	12,15.3	19,21	10,14	15	11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

XACZRH	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

XAGATV	PowerPlex® Fusion 6C					
	12,15.3	19,21	10,14	15,15	11,11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7	17,28.2	7,9.3	8,8
	15,16	10	19	16		

XPT8ZW	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

XZAK6Y	GlobalFiler™					
	12,15.3	19,21	10,14	15,15	11,11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

TABLE 1

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

Item 3 - STR Results

Y86EPX — Investigator® 24plex QS

Item						
3	12,15.3	19,21	10,14	15,15	11,11	N/A
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	N/A	N/A	17,28.2	7,9.3	8,8
	15,16	10	N/A	N/A	N/A	

YBN29P — PowerPlex® Fusion 6C (STRmix)

Item						
3	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7	17,28.2	7,9.3	8,8
	15,16	10	19	16		

YBQL7Q — PowerPlex® Fusion 6C

Item						
3	12,15.3	19,21	10,14	15,15	11,11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7	17,28.2	7,9.3	8,8
	15,16	10	19	16		

YKQE9Q — GlobalFiler™

Item						
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

YKRJWU — GlobalFiler™

Item						
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

YU2D6M — GlobalFiler™ (STRmix)

Item						
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

YUJ2B3 — PowerPlex® Fusion 6C (STRmix)

Item						
3	12,15.3	19,21	10,14	15	11	
	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25	12	5,7	17,28.2	7,9.3	8
	15,16	10	19	16		

TABLE 1

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

Item 3 - STR Results

Z8KHPN — GlobalFiler™

D1S1656 / …	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

Item: 3

ZAAR2B — GlobalFiler™

D1S1656 / …	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

Item: 3

ZCFR6B — GlobalFiler™

D1S1656 / …	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

Item: 3

ZMBVBQ — GlobalFiler™

D1S1656 / …	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15,15	11,11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14,14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8,8
15,16	10			2	

Item: 3

ZMZG32 — GlobalFiler™ (STRmix)

D1S1656 / …	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

Item: 3

ZQ2H3Y — GlobalFiler™

D1S1656 / …	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

Item: 3

ZR8CEP — GlobalFiler™

D1S1656 / …	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,15.3	19,21	10,14	15	11	
8,10	13,16	13,15	18,20	12,13	8,9
13,18	14	30,31	11,15	X,Y	10,12
22,25			17,28.2	7,9.3	8
15,16	10			2	

Item: 3

TABLE 1

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

ZW3WNZ	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
ZXUAET	PowerPlex® Fusion 6C					
	12,15.3	19,21	10,14	15,15	11,11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25	12,12	5,7	17,28.2	7,9.3	8,8
	15,16	10	19	16		
ZYPHE3	Investigator® 24plex QS					
	12,15.3	19,21	10,14	15,15	11,11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10				
ZZK6MY	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	
ZZZKYF	GlobalFiler™					
	12,15.3	19,21	10,14	15	11	
3	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8
	15,16	10			2	

TABLE 1

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

Item 3e - STR Results

DLZY4K	GlobalFiler™					
	12,15.3	19,21	10,14	15,15	11,11	
3e	8,10	13,16	13,15	18,20	12,13	8,9
	13,18	14,14	30,31	11,15	X,Y	10,12
	22,25			17,28.2	7,9.3	8,8
	15,16	10			2	

TABLE 1

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

Item 3sp - STR Results

DLZY4K   GlobalFiler™

3sp

TABLE 1

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

3NXFR7 — GlobalFiler™ (STRmix) — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

4DBLAH — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	15,17	X,Y	10,12
20,23,26			16,26.2,27.2	6,7,9.3	8,11
16,19	10			2	

6H3A7F — PowerPlex® Fusion 6C — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	9,10,11,13	10,13,14,16	15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10	22	16		

6QUM6E — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

CDPVKV — GlobalFiler™ (STRMix) — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,13,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

M9EJWJ — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,12,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,11,12
20,23,26			15,16,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

PUTQKH — GlobalFiler™ (STRmix Victim LR = 7.86E22   Male Suspect LR= 0) — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
23,26			15,16,26.2,27.2	6,7	8,11
15,16	10			2	

TABLE 1

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

QERG9V PowerPlex®, GlobalFiler™   (Item 4)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,24,26			16,26.2,27.2	6,7,9.3	8,9,11
16,19	10			2	

R3WLBR GlobalFiler™   (Item 4)

13,15,17.3	17,18,19,25	11,14,15	15,16,17,18	9,11,12	-
8,10,14	11,13,14	13,15	21,23,24,25	9,11,12	12,14,15
15,16,17,18	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	-	-	15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10	-	-	2	

R4AE9F GlobalFiler™   (GENEMAPPER ID-X1.5)   (Item 4)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,17	12,14,15,16.2	28,29,30	11,15,16,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

WRDWKA GlobalFiler™   (STRmix)   (Item 4)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
16,19	10			2	

YBN29P PowerPlex® Fusion 6C   (Item 4)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	9,10,11,13	10,13,14,16	15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10	22	16		

ZXUAET PowerPlex® Fusion 6C   (Item 4)

13,15,[17.3]	17,19,[25]	11,14	16	[9],11,12	
8,10,[14]	[11],13	13,15	[21],23,24	[9],11,12	[12],14
[15],17	[12],15,16.2	28,29,[30]	[11],15,[16],17	X,Y	10,10
[20],23	11,13	10,[13],14	[15],16,[26.2],27.2	6,7	8,[9]
16,16	10	22	16		

TABLE 1

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

Item 4e - STR Results

27MMNX — PowerPlex® Fusion

Item						
4e	{13},15,17.3	17,18,19,25	{11},14,14	15,16,18	9,11,{12}	
	{8},10,14	11,13,14	13,15	21,23,{24}	9,9,{11,12}	12,12,{14}
	15,16,{17}	12,14,{15,16.2}	28,29,30	11,15,{17}	X,X,{Y}	10,12
	20,{23},26	9,10	{10},13,{14},16		{6},7,9.3	{8},9,11
	15,{16},19	NR				

29CZ4U — GlobalFiler™

Item						
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

29DNRZ — GlobalFiler™ (STRmix)

Item						
4e	13,15,17.3	17,18,19,25	11,14	15,16,17,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,13,14,15
	15,16,17	12,14,15,16.2	28,29,30	11,15,16,17,18	X,Y	10,11,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10,11			2	

2A4YEM — GlobalFiler™ (STRmix)

Item						
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

2PKPMM — GlobalFiler™

Item						
4e	[13],15,17.3	17,18,19,25	[11],14	15,16,18	9,11,12	NA
	[8],10,14	11,13,14	13,15	21,23,[24]	9,11,[12]	12,[14]
	15,16,17	12,14,[15],[16.2]	28,29,30	11,15,[17]	X,Y	10,12
	20,23,26	NA	NA	15,[16],26.2,[27.2]	[6],7,9.3	[8],9,11
	15,[16],19	[10]	NA	NA	2	

2R422H — GlobalFiler™

Item						
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	N/A
	8,10,14	11,13,14	13,15	21,23,[24]	9,11,12	12,[14]
	15,16,17	12,14,[15],16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26	N/A	N/A	15,16,26.2,27.2	6,7,9.3	[8],9,11
	15,16,19	10	N/A	N/A	2	

33KV8K — GlobalFiler™ (STRmix)

Item						
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

TABLE 1

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

Item 4e - STR Results

368REB	GlobalFiler™					
	[13],15,[17.3]	17,[18],19,[25]	[11],14	[15],16,[18]	[9],11,[12]	
4e	[8],10,[14]	[11],13,[14]	13,15	21,23,[24]	9,11,12	12,14
	[15],[16],17	12,14,15,16.2	28,29,[30]	[11],15,[17]	X,[Y]	10,[12]
	[20],23,[26]			15,16,[26.2],27.2	[6],7,[9.3]	8,[9],[11]
	15,16,[19]	10			2	
3A3EEQ	PowerPlex® Fusion 6C					
	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
4e	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26	9,10,11,13	10,13,14,16	15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10	22	16		
3ERXAT	GlobalFiler™					
	13,15	17,18,19,25	11,14	15,16,18	9,11,12	
4e	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	
3F7HZH	GlobalFiler™					
	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	NA
4e	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26	NA	NA	15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10	NA	NA	2	
3GEKZV	GlobalFiler™					
	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
4e	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	
3P9PUW	GlobalFiler™					
	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
4e	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	
3TDDDT	GlobalFiler™ (STRmix)					
	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
4e	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

TABLE 1

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

Item 4e - STR Results

3TGQ6V — PowerPlex® Fusion

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15,[17.3]	17,[18],19,[25]	11,14	[15],16,16,[18]	[9],11,12	
8,10,[14]	[11],13,13,[14]	13,15	[21],23,24	[9],11,12	[12],14,14
[15,16],17,17	[12,14],15,16.2	28,29,[30]	[11],15,17	X,Y	10,10,[12]
[20],23,23,[26]	[9,10],11,13	10,[13],14,[16]		6,7,[9.3]	8,8,[11]
[15],16,16,[19]	10				

3YY7PR — GlobalFiler™ (STRmix)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

3ZD8H2 — GlobalFiler™

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

48R2YV — GlobalFiler™

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

4FK9KM — GlobalFiler™

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

4HAF9P — PowerPlex® Fusion 6C

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	9,10,11,13	10,13,14,16	15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10	22	16		

63T37H — GlobalFiler™

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
[13],15,17.3	[17],18,[19],25	[11],14,14	15,[16],18	9,11,[12]	N/A
[8],10,14	11,[13],14	13,15	21,23,[24]	9,9,[11],[12]	12,12,[14]
15,16,[17]	12,14,[15],[16.2]	[28],29,30	11,15,[17]	X,X,[Y]	10,12
20,[23],26	N/A	N/A	15,26.2,[27.2]	[6],7,9.3	[8],9,11
15,[16],19	[10]	N/A	N/A	[2]	

TABLE 1

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

6HKM2K	PowerPlex® Fusion 6C					
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15	X,Y	10,12
	20,23,26	9,10,11,13	10,13,14,16	15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10	22	16		
6KVF4Y	GlobalFiler™ (STRmix)					
4e	13,15,17.3,18.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,16,17,18	X,Y	10,12
	20,23,26			15,16,26.2,27.2	4,6,7,9.3	8,9,11
	15,16,19	10			2	
6XGYEV	GlobalFiler™					
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	
7CZW3W	GlobalFiler™					
4e	13,15,[17.3]	17,[18],19,[25]	11,14	16,[18]	[9],11,12	
	8,10,[14]	[11],13,[14]	13,15	[21],23,24	[9],11,12	[12],14
	[15],[16],17	[12],[14],15,16.2	28,29,[30]	[11],15,17	X,Y	10,[12]
	[20],23,[26]			[15],16,[26.2],27.2	6,7,[9.3]	8,[9],[11]
	[15],16,[19]	10			2	
7QWB3P	PowerPlex® Fusion					
4e	13,15,[17.3]	17,[18],19,[25]	11,14	[15],16,16,[18]	[9],11,12	
	8,10,[14]	[11],13,13,[14]	13,15	[21],23,24	[9],11,12	[12],14,14
	[15],17,17	[12],[14],15,16.2	28,29,[30]	[11],15,17	X,Y	10,10,[12]
	[20],23,23,[26]	[9],[10],11,13	10,[13],14,[16]		6,7,[9.3]	8,8,[9],[11]
	[15],16,16,[19]	10				
8DLK2W	GlobalFiler™					
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	
8GLAGP	GlobalFiler™ (STRmix)					
4e	13,15,17.3,18.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14,15	11,13,14	13,15	21,23,24	9,11,12	12,13,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,16,17,18	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,17,19	10			2	

TABLE 1

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

Item 4e - STR Results

8LED42 GlobalFiler™ (STRmix)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

93XQVY GlobalFiler™ (STRmix)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

97EXFR GlobalFiler™

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

9X67YP GlobalFiler™

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

9X8GP8 Investigator® 24plex

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	NT
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	NT	NT	15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10	NT	NT	NT	

9XMHQN GlobalFiler™

[13],15,17.3	18,[19],25	[11],14	15,[16],18	9,11,[12]	--
[8],10,14	11,[13],14	13,15	21,23,[24]	9,[11,12]	12,[14]
15,16,[17]	12,14,[15,16.2]	[28],29,30	11,15,[17]	X,[Y]	10,12
20,[23],26	--	--	15,[16],26.2,[27.2]	[6],7,9.3	[8],9,11
15,[16],19	[10]	--	--	[2]	

A3FGPX GlobalFiler™ (STRmix)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

TABLE 1

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

Item 4e - STR Results

A7ZQVV GlobalFiler™

	D1S1656 / etc	D2S1338 / etc	D2S441 / etc	D3S1358 / etc	D5S818 / etc	D6S1043 / etc
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

AHU399 PowerPlex® 21 (STRmix)

	D1S1656 / etc	D2S1338 / etc	D2S441 / etc	D3S1358 / etc	D5S818 / etc	D6S1043 / etc
4e	12,12.2,13,14,14.2,15,16,16.3,17.1,17.3	16,17,18,19,24,25		14,15,16,17,18	9,10,11,12	9,10,11,12
	7,8,9,10,14	10,11,12,13,14		20,21,22,23,24,25	8,9,10,11,12,13	11,12,13,14,15
	14,15,16,17,18	12,13,14,15,15.2,16.2	27,28,29,30		X,Y	9,10,11,12
	19,20,21,22,23,24,25,26	9,10,11,12,13	9,10,12,13,14,15,16		5,6,7,9.3	7,8,9,11
	14,15,16,17,18,19					

AMLE6Q GlobalFiler™

	D1S1656 / etc	D2S1338 / etc	D2S441 / etc	D3S1358 / etc	D5S818 / etc	D6S1043 / etc
4e	[13],15,17.3	18,[19],25	[11],14	15,[16],18	9,11,12	
	[8],10,14	11,[13],14	13,15	21,23,[24]	9,[11],[12]	12,[14]
	15,16,[17]	12,14,[15],[16.2]	[28],29,30	11,15,[17]	X,[Y]	10,12
	20,[23],26			15,[16],26.2,[27.2]	[6],7,9.3	[8],9,11
	15,[16],19	[10]			[2]	

APPAM9 GlobalFiler™

	D1S1656 / etc	D2S1338 / etc	D2S441 / etc	D3S1358 / etc	D5S818 / etc	D6S1043 / etc
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

AU88E6 GlobalFiler™

	D1S1656 / etc	D2S1338 / etc	D2S441 / etc	D3S1358 / etc	D5S818 / etc	D6S1043 / etc
4e	[13],15,17.3	17,[18],19,[25]	[11],14	[15],16,[18]	[9],11,[12]	
	[8],10,[14]	[11],13,[14]	13,15	[21],23,24	9,11,12	12,14
	[15],16,17	[12],14,15,16.2	[28],29,[30]	[11],15,[17]	X,[Y]	10,[12]
	20,23,[26]			15,16,[26.2],27.2	6,7,[9.3]	8,[9],[11]
	[15],16,[19]	10			2	

AZPVT8 Identifiler® Plus

	D1S1656 / etc	D2S1338 / etc	D2S441 / etc	D3S1358 / etc	D5S818 / etc	D6S1043 / etc
4e		18,[19],25		15,[16],18	9,11,[12]	
	[8],10,14	11,[13],14			9,[11],[12]	12,[14]
	15,16,[17]	12,14,[15],[16.2]	[28],29,30		X,[Y]	10,12
	20,[23],26				[6],7,9.3	[8],9,11
	15,[16],19					

TABLE 1

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

B6JYFJ — GlobalFiler™ (STRmix) — Item 4e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

B87XA9 — GlobalFiler™ — Item 4e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

BBQK9M — GlobalFiler™ — Item 4e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16,16	[9],11,12	
8,10	13,[14]	13,15	23,24	11,12	[12],14
[15],17	[12],[14],15,16.2	28,29	[11],15,17	X,Y	10,10
23,[26]			16,27.2	6,7,[9.3]	8,[9],[11]
16,16	10			2	

BDD6AK — GlobalFiler™ (STRmix) — Item 4e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

BNCXKW — GlobalFiler™ (STRmix) — Item 4e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

BU4X6K — GlobalFiler™ — Item 4e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

BYBTF8 — GlobalFiler™ — Item 4e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

TABLE 1

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

Item 4e - STR Results

CA6DFB — GlobalFiler™

Item	D1S1656 / etc.					
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

CBJVJG — PowerPlex® 6C

Item						
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26	9,10,11,13	10,13,14,16	15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10	22	16		

CFXFGP — PowerPlex® Fusion 5C

Item						
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26	9,10,11,13	10,13,14,16		6,7,9.3	8,9,11
	15,16,19	10				

CKAEYA — GlobalFiler™

Item						
4e	13,15,17.3	17,18,[19],25	[11],14	15,16,18	9,11,12	NA
	[8],10,14	11,13,14	13,15	21,23,[24]	9,[11],12	12,14
	15,16,17	12,14,[15],[16.2]	28,29,30	11,15,[17]	X,Y	10,12
	20,23,26	NA	NA	15,[16],26.2,[27.2]	[6],7,9.3	8,9,11
	15,16,19	10	NA	NA	2	

CMWX3T — GlobalFiler™

Item						
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

CT42XF — GlobalFiler™

Item						
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

D74MQB — GlobalFiler™

Item						
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

TABLE 1

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

Item 4e - STR Results

D7NLN9 — GlobalFiler™ — 4e

D1S1656/D7S820/D18S51/FGA/vWA	D2S1338/D8S1179/D19S433/Penta D/DYS391	D2S441/D10S1248/D21S11/Penta E/DYS570	D3S1358/D12S391/D22S1045/SE33/DYS576	D5S818/D13S317/Amelogenin/TH01/Y Indel	D6S1043/D16S539/CSF1PO/TPOX
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	NA
[8],10,14	11,13,14	13,15	21,23,24	9,[11],12	12,14
15,16,17	12,14,[15],[16.2]	28,29,30	11,15,17	X,Y	10,12
20,23,26	NA	NA	15,16,26.2,27.2	[6],7,9.3	8,9,11
15,16,19	10	NA	NA	2	

D8WKYG — PowerPlex® Fusion — 4e

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	9,10,11,13	10,13,14,16		6,7,9.3	8,9,11
15,16,19	10				

D9PMQQ — GlobalFiler™ (STRmix) — 4e

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

DLZY4K — GlobalFiler™ — 4e

13,15,[17.3]	17,[18],19,[25]	11,14	15,16,18	9,11,12	
8,10,14	[11],13,[14]	13,15	21,23,24	9,11,12	12,14
15,16,17	[12],[14],15,16.2	28,29,[30]	[11],15,17	X,Y	10,[12]
[20],23,[26]			[15],16,[26.2],27.2	6,7,[9.3]	8,[11]
[15],16,[19]	10			2	

DNJ23D — PowerPlex® Fusion 5C — 4e

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	9,10,11,13	10,13,14,16		6,7,9.3	8,9,11
15,16,19	10				

DV3WUN — GlobalFiler™ — 4e

13,15,[17.3]	17,[18],19,[25]	11,14	[15],16,[18]	[9],11,12	
8,10,[14]	[11],13,[14]	13,15	[21],23,24	[9],11,12	[12],14
[15],17	[12],[14],15,16.2	28,29,[30]	[11],15,17	X,Y	10,[12]
[20],23,[26]			16,[26.2],27.2	6,7	8,[9],[11]
[15],16,[19]	10			2	

DWD7VE — PowerPlex® Fusion 5C — 4e

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	9,10,11,13	10,13,14,16		6,7,9.3	8,9,11
15,16,19	10				

TABLE 1

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

Item 4e - STR Results

DY6WUL   ESI-17

4e	13,15,17.3	17,18,19,25	11,14	15,16,18		
		11,13,14	13,15	21,23,24		12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	
	20,23,26			15,(16),26.2	6,7,9.3	
	15,16,19					

EBAVBC   PowerPlex® Fusion 6C (STRmixV2.5.11)

4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26	9,10,11,13	10,13,14,16	15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10	22	16		

EBXY8T   GlobalFiler™ (STRMIX)

4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

EEVWLK   GlobalFiler™

4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

EF9YGD   PowerPlex® Fusion

4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26	9,10,11,13	10,13,14,16		6,7,9.3	8,9,11
	15,16,19	10				

EJNPL8   GlobalFiler™

4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

EPBAUU   GlobalFiler™

4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

TABLE 1

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

EQRN24 GlobalFiler™ — Item 4e

D1S1656 etc.					
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10,0			2,0	

F2Z3NH GlobalFiler™ — Item 4e

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

FGG4JM GlobalFiler™ (TrueAllele) — Item 4e

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

FKVVAF Investigator® 24plex QS — Item 4e

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	N/A
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	N/A	N/A	15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10	N/A	N/A	N/A	

FRZV7H PowerPlex® Fusion — Item 4e

13,15,(17.3)	17,(18),19,(25)	11,14	(15),16,16,(18)	(9),11,12	
8,10,(14)	(11),13,13,(14)	13,15	(21),23,24	(9),11,12	(12),14,14
(15),17,17	(12,14),15,16.2	28,29,(30)	(11),15,17	X,Y	10,10,(12)
(20),23,23(26)	(9),(10),11,13	10,(13),14,(16)		6,7,(9.3)	8,8,(9,11)
(15),16,16(19)	10				

FU4UEP PowerPlex® Fusion 6C — Item 4e

[13],15,17.3	17,18,19,25	[11],14	15,16,18	9,11,[12]	
[8],10,14	11,13,14	13,15	[21],23,[24]	9,[11],[12]	12,[14]
15,16,17	12,14,15,[16.2]	[28],29,30	11,15,[17]	X,[Y]	10,[12]
20,23,26	9,10,[11],[13]	[10],13,[14],15	15,[16],26.2,[27.2]	[6],7,9.3	8,9,11
15,16,19	10	22	16		

G22U6G GlobalFiler™ — Item 4e

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

TABLE 1

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

Item 4e - STR Results

G6FKAC — GlobalFiler™ (STRmix)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

G6KX2E — PowerPlex® Fusion

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15	X,X,[Y]	10,12
20,23,26	9,10,11	13,16		6,7,9.3	8,9,11
15,16,19	10				

GF3J33 — GlobalFiler™

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

GF68NM — GlobalFiler™ (STRmix)

13,15,[17.3]	17,[18],19,[25]	11,14	[15],16,[18]	[9],11,12	
8,10,[14]	[11],13,[14]	13,15	[21],23,24	[9],11,12	[12],[13],14
[15],[16],17	[12],[14],15,16.2	28,29,[30]	[11],15,17,[18]	X,Y	10,[12]
[20],23,[26]			[15],[15.2],16,[26.2], 27.2,[28.2]	6,7,[9.3]	8,[9],[11]
16,[19]	10			2	

GH7C28 — PowerPlex® Fusion 6C

[13],15,17.3	[17],18,[19],25	[11],14,14	15,[16],18	9,11,[12]	
[8],10,14	11,[13],14	13,15	21,23,[24]	9,9,[11],[12]	12,12,[14]
15,16,[17]	12,14,[15],[16.2]	[28],29,30	11,15,[17]	X,X,[Y]	10,12
20,[23],26	9,10,[11],[13]	[10],13,[14],16	15,[16],26.2,[27.2]	[6],7,9.3	[8],9,11
15,[16],19	[10]	[22]	[16]		

GQX84R — GlobalFiler™

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

GYAT2E — GlobalFiler™ (STRmix)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

TABLE 1

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

Item 4e - STR Results

H3BPDA   Investigator® 24plex (STRmix)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10				

(Item: 4e)

HABUY6   GlobalFiler™

[13],15,17.3	17,18,19,25	[11],14	15,16,18	9,11,12	N/A
[8],10,14	11,13,14	13,15	21,23,[24]	9,11,12	12,14
15,16,17	12,14,[15],[16.2]	28,29,30	11,15,[17]	X,[Y]	10,12
20,23,26	N/A	N/A	15,[16],26.2,[27.2]	[6],7,9.3	[8],9,11
15,16,19	[10]	N/A	N/A	[2]	

(Item: 4e)

HTJU7J   GlobalFiler™

(13),15,17.3	(17),18,(19),25	(11),14	15,(16),18	9,11,(12)	
(8),10,14	11,(13),14	13,15	21,23,(24)	9,(11),(12)	12,(14)
15,16,(17)	12,14,(15),(16.2)	(28),29,30	11,15,(17)	X,(Y)	10,12
20,(23),26			15,(16),26.2,(27.2)	(6),7,9.3	(8),9,11
15,(16),19	(10)			(2)	

(Item: 4e)

HTYUVL   Investigator® 24plex QS

13,15,17.3	17,18,25	11,14	15,16,18	9,11	N/A
8,10,14	11,13,14	13,15	21,23	9,11,12	12,14
15,16,17	12,14	28,29,30	11,15,17	X,X	10,12
20,23,26	N/A	N/A	15,16,26.2	7,9.3	8,9,11
15,16,19	10	N/A	N/A	N/A	

(Item: 4e)

J6BRPA   PowerPlex® Fusion

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	9,10,11,13	10,13,14,16		6,7,9.3	8,9,11
15,16,19	10				

(Item: 4e)

JA38XG   GlobalFiler™

13,15,[17.3]	17,[18],19,[25]	11,14	[15],16,[18]	[9],11,12	
8,10,[14]	[11],13,[14]	13,15	[21],23,24	[9],11,12	[12],14
[15],[16],17	[12],[14],15,16.2	28,29,[30]	[11],15,17	X,Y	10,[12]
[20],23,[26]			[15],16,[26.2],27.2	6,7,[9.3]	8,[9],[11]
[15],16,[19]	10			2	

(Item: 4e)

JLCWRC   GlobalFiler™ (STRmix)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

(Item: 4e)

TABLE 1

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

JMVFY4 — GlobalFiler™ IQC

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

JPH8U8 — PowerPlex® Fusion 6C (STRmix v. 2.5.11)

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26	9,10,11,13	10,13,14,16	15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10	22	16		

JR67DQ — PowerPlex® 5C

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	13,15	17,19	11,14	16	11,12	--
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23	11,13	10,14	--	6,7	8
	16	10	--	--	--	

JTUUBC — Investigator® 24plex QS, FLEXPLEX

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	NA
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26	NA	NA	15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10	NA	NA	NA	

JV66C3 — GlobalFiler™ (STRmix)

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

K4CWMH — GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

K69JVF — PowerPlex® Fusion

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26	9,10,11,13	10,13,14,16		6,7,9.3	8,9,11
	15,16,19	10				

TABLE 1

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

KGK3BQ — GlobalFiler™ (Item 4e)

13,15,17.3	17,18,19,25	[11],14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,[12]	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,X,[Y]	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

KK3CUJ — GlobalFiler™ (Item 4e)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

KN3KZE — (Promega ESI17 Fast) (Item 4e)

[13],15,17.3	[17],18,[19],25	[11],14	15,[16],18		
	11,[13],14	13,15	21,23,[24]		12,[14]
15,16,[17]	12,14,[15,16.2]	[28],29,30	11,15,[17]	X,[Y]	
20,[23],26			15,[16],26.2,[27.2]	[6],7,9.3	
15,[16],19					

KUCAQM — VERIFILER Plus (Item 4e)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	10,11,12
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	9,10,11,13	10,13,14,16		6,7,9.3	8,9,11
15,16,19				2	

KXQ3QK — PowerPlex® Fusion 6C (Item 4e)

[13],15,[17.3]	17,18,19,25	[11],14	15,16,[18]	9,11,[12]	
[8],10,[14]	11,13,14	13,15	[21],23,[24]	9,[11],[12]	12,14
15,16,17	12,14,15,16.2	[28],29,[30]	11,15,[17]	X,[Y]	10,[12]
[20],23,[26]	9,10,[11],[13]	10,13,[14],16	15,16,26.2,[27.2]	[6],7,[9.3]	8,9,11
15,16,19	10	22	16		

KZUYT2 — GlobalFiler™ (STRmix) (Item 4e)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

LAEPTX — GlobalFiler™ (Item 4e)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

TABLE 1

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

LF2DRA — PowerPlex® Fusion (4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,[17.3]	17,[18],19,[25]	11,14	[15],16,[18]	[9],11,[12]	
8,10,[14]	[11],13,[14]	13,15	[21],23,24	9,11,12	[12],14
[15],[16],17	[14],15,16.2	28,29,[30]	[11],15,[17]	X,Y	10,[12]
[20],23,[26]	[9],[10],11,13	10,[13],14,[16]		6,7,[9.3]	8,[9],[11]
[15],16,[19]	10				

LGYQ9B — GlobalFiler™ (4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29	15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,11
15,16,19	10			2	

LQ3NCE — GlobalFiler™ (4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

LZN323 — GlobalFiler™ (4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
[13],15,17.3	[17],18,[19],25	[11],14,14	15,[16],18	9,11,[12]	N/A
[8],10,14	11,[13],14	13,15	21,23,[24]	9,9,[11],[12]	12,12,[14]
15,16,[17]	12,14,[15],[16.2]	29,30	11,15,[17]	X,X,[Y]	10,12
20,[23],26	N/A	N/A	15,26.2,[27.2]	[6],7,9.3	[8],9,11
15,[16],19	[10]	N/A	N/A	[2]	

M89HA7 — PowerPlex® Fusion 6C (4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	9,10,11,13	10,13,14,16	15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10	22	16		

MDR3H8 — Investigator® 24plex (STRmix) (4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10				

MKUCLE — GlobalFiler™ IQC (4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
(13),15,17.3	17,18,19,25	(11),14	15,(16),18	9,11,(12)	
(8),10,14	11,13,14	13,15	21,23,(24)	9,(11,12)	12,(14)
15,16,(17)	12,14,(15,16.2)	(28),29,30	11,15,(17)	X,(Y)	10,12
20,23,26			15,(16),26.2,(27.2)	(6),7,9.3	8,9,11
15,(16),19	10			2	

TABLE 1

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

MLQ999 — GlobalFiler™ (4e)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

MREV2T — PowerPlex® ESX 16 Fast (4e)

15,17.3	18,25	14,14	15,18		
	11,14	13,15	21,23		12,12
15,16	12,14	29,30	11,15	X,X	
20,26				7,9.3	
15,19					

MVTEZ2 — GlobalFiler™ (4e)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

MYECF6 — PowerPlex® Fusion 6C (4e)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	9,10,11,13	10,13,14,16	15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10	22	16		

N7N2PW — GlobalFiler™ (4e)

[13],15,17.3	17,18,[19],25	[11],14,14	15,16,18	9,11,[12]	N/A
[8],10,14	11,13,14	13,15	21,23,[24]	9,9,[11],[12]	12,14
15,16,[17]	12,14,[15],[16.2]	[28],29,30	11,15,[17]	X,X,[X],[Y]	10,12
20,23,26	N/A	N/A	15,[16],26.2,[27.2]	[6],7,9.3	8,9,11
15,16,19	[10]	N/A	N/A	[2]	

NCGKWF — PowerPlex® ESI 17 Fast (4e)

13,15,(17.3)	17,19,(25)	11,14	16,16		
	(11),13,13	13,15	(21),23,24		(12),14,14
17,17	(12),(14),15,16.2	28,29,(30)	(11),(16),15,17	X,Y	
(20),23,23,(26)			16,27.2	6,7,(9.3)	
16,16,(19)					

NHGYJ3 — GlobalFiler™ (4e)

13,15,[17.3]	17,[18],19,[25]	11,14	[15],16,[18]	[9],11,12	
8,10,[14]	[11],13,[14]	13,15	[21],23,24	[9],11,12	[12],14
[15],[16],17	12,[14],15,16.2	28,29,[30]	[11],15,17	X,Y	10,[12]
[20],23,[26]			[15],16,[26.2],27.2	6,7,[9.3]	8,[9],[11]
[15],16,[19]	10			2	

TABLE 1

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

Item 4e - STR Results

NK7VY2 GlobalFiler™

4e	D1S1656/D7S820/D18S51/FGA/vWA	D2S1338/D8S1179/D19S433/Penta D/DYS391	D2S441/D10S1248/D21S11/Penta E/DYS570	D3S1358/D12S391/D22S1045/SE33/DYS576	D5S818/D13S317/Amelogenin/TH01/Y Indel	D6S1043/D16S539/CSF1PO/TPOX
	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

NMWW34 GlobalFiler™

4e						
	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

NPYX32 GlobalFiler™

4e						
	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

NRATQE GlobalFiler™ (STRmix)

4e						
	13,15,(17.3)	17,(18),19,(24),(25)	11,14	(15),16,(18)	(9),11,12	
	8,10,(14)	(11),13,(14)	13,15	(21),(22),23,24	(9),11,12	(12),14
	(15),(16),17	(12),(14),15,16.2	28,29,(30)	(11),15,17,(18)	X,Y	10,(12)
	(20),23,(26)			16,(26.2),27.2	6,7,(9.3)	8,(9),(11)
	(15),16,(19)	10			2	

NWZCN3 GlobalFiler™

4e						
	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

NYMXE6 PowerPlex® Fusion

4e						
	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26	9,10,11,13	10,13,14,16		6,7,9.3	8,9,11
	15,16,19	10				

NZNL3A GlobalFiler™

4e						
	13,15,[17.3]	17,[18],19,[25]	11,14	[15],16,[18]	[9],11,12	
	8,10,14	[11],13,[14]	13,15	[21],23,24	9,11,12	12,14
	[15],[16],17	[12],[14],15,16.2	28,29,[30]	[11],15,17	X,Y	10,[12]
	[20],23,[26]			[15],16,[26.2],27.2	6,7,[9.3]	8,[9],[11]
	[15],16,[19]	10			2	

TABLE 1

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

Item 4e - STR Results

P2P9RJ GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

PFBJGA GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

PHGHKB PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	9,10,11,13	10,13,14,16	15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10	22	16		

PRPTCA GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

PUU66A GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,13,14
15,16,17	12,14,15,16.2	28,29,30	11,15,16,17,18	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

PWFQVC NGM SElect

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18		
	11,13,14	13,15	21,23,24		12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	
20,23,26			15,16,26.2,27.2	6,7,9.3	
15,16,19					

Q4AU88 GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

TABLE 1

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

Item 4e - STR Results

Q736E9 PowerPlex® Fusion

[13],15,17.3	17,18,19,25	[11],14,14	15,[16],18	9,11,[12]	
[8],10,14	11,13,14	13,15	21,23,[24]	9,9	12,12,[14]
15,16,[17]	12,14,[15],[16.2]	[28],29,30	11,15,[17]	X,X,[Y]	10,12
20,[23],26	9,10	[10],13,16		[6],7,9.3	[8],9,11
15,[16],19	10				

Q7YJMY PowerPlex® Fusion 6C (STRmix)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	9,10,11,13	10,13,14,16	15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10	22	16		

Q98W62 PowerPlex® Fusion 6C (STRmix v2.5.11)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	9,10,11,13	10,13,14,16	15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10	22	16		

QAZUET GlobalFiler™

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

QCPUYH GlobalFiler™ (STRmix)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14,15
15,16,17	12,14,15,16.2	28,29,30	11,15,16,17,18	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

QDHR8P GlobalFiler™

13,15,[17.3]	17,[18],19,[25]	11,14	[15],16,[18]	[9],11,12	
8,10,[14]	[11],13,[14]	13,15	[21],23,24	[9],11,12	[12],14
[15],[16],17	[12],[14],15,16.2	28,29,[30]	[11],15,17	X,Y	10,[12]
[20],23,[26]			[15],16,[26.2],27.2	6,7	8,[9],[11]
[15],16,[19]	10			2	

QM9HK6 GlobalFiler™ (STRmix)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

TABLE 1

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

Item 4e - STR Results

R24E6E — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15	X,Y	10,12
	20,23,26			15,16,26.2,27.2	7,9.3	8,9,11
	15,16,19				2	

RGEBQH — AmpFlSTR NGM Detect

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,17.3	18,25	14	15,18		
		11,14	13,15	21,23		12
	15,16	12,14	29,30	11,15	X	
	20,26			15,26.2	7,9.3	
	15,19				-	

RJHQVK — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	[13],15,17.3	[17],18,[19],25	[11],14	15,16,18	9,11,[12]	
	[8],10,14	11,[13],14	13,15	21,23,[24]	9,[11],[12]	12,[14]
	15,16,[17]	12,14,[15],[16.2]	[28],29,30	11,15,[17]	X,[Y]	10,12
	20,[23],26			15,[16],26.2,[27.2]	[6],7,[9.3]	[8],[9],11
	15,[16],19	10			2	

RRDQBX — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26	9,10,11,13	10,13,14,16	15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10	22	16		

RU6PLP — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

RXNMDL — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	[13],15,17.3	[17],18,[19],25	[11],14	15,[16],18	9,11,[12]	
	[8],10,14	11,[13],14	13,15	21,23,[24]	9,[11],[12]	12,[14]
	15,16,[17]	12,14,[15],[16.2]	[28],29,30	11,15,[17]	X,[Y]	10,12
	20,[23],26			15,[16],26.2,[27.2]	[6],7,9.3	[8],9,11
	15,[16],19	10			2	

T3UVXM — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,NR	
	NR,10,14	11,13,14	13,15	NR,23,24	9,11,12	12,NR
	15,NR,17	12,NR,15,16.2	28,29,30	11,15,17	X,Y	10,NR
	NR,23,NR			15,16,26.2,27.2	NR,7,9.3	NR,NR,NR
	15,16,19	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 4e - STR Results

T6H6AA   GlobalFiler™   (Item 4e)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

TF643Z   PowerPlex® Fusion 6C   (STRmix V2.5.11)   (Item 4e)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	N/A
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	9,10,11,13	10,13,14,16	15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10	22	16	N/A	

TFZT3M   GlobalFiler™   (Item 4e)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

TJFXLX   PowerPlex® ESI17_FAST   (Item 4e)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15,17.3	17,18,19,25	11,14	15,16,18		
	11,13,14	13,15	21,23,24		12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	
20,23,26			15,16,26.2,27.2	6,7,9.3	
15,16,19					

TW7ZBX   GlobalFiler™   (Item 4e)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,X,[Y]	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

UCXC3Y   GlobalFiler™   (Item 4e)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

UQUQ3R   GlobalFiler™   (Item 4e)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

TABLE 1

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

Item 4e - STR Results

VYNWWT — GlobalFiler™

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

VZY9L6 — ESI-17 Fast

13,15,17.3	17,18,19,25	11,14	15,16,18		
	11,13,14	13,15	21,23,24		12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	
20,23,26			15,16,26.2,27.2	6,7,9.3	
15,16,19					

W6B4VD — GlobalFiler™ (STRmix)

13,15,17.3	17,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

W6M3QM — GlobalFiler™

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

WCQPW6 — PowerPlex® Fusion

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	9,10,11,13	10,13,14,16		6,7,9.3	8,9,11
15,16,19	10				

WKK6CZ — PowerPlex® Fusion

13,15,17.3	17,18,19,25	[11],14,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	9,10,11,13	10,13,14,16		6,7,9.3	8,9,11
15,16,19	10				

WVZYMU — PowerPlex® Fusion 6C (STRMIX)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	9,10,11,13	10,13,14,16	15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10	22	16		

TABLE 1

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

Item 4e - STR Results

X3BK6W — GlobalFiler™ (STRmix) — 4e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

XACZRH — GlobalFiler™ — 4e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

XAGATV — PowerPlex® Fusion 6C — 4e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	9,10,11,13	10,13,14,16	15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10	22	16		

XPT8ZW — GlobalFiler™ — 4e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

XZAK6Y — GlobalFiler™ — 4e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,[17.3]	17,19,[25]	11,14	[15],16,[18]	[9],11,12	
8,10,14	[11],13,[14]	13,15	[21],23,24	9,11,12	12,14
[15,16],17	[12,14],15,16.2	28,29,[30]	[11],15,17	X,Y	10,[12]
[20],23,[26]			[15],16,[26.2],27.2	6,7,[9.3]	8,[9,11]
15,16	10			2	

Y86EPX — Investigator® 24plex QS — 4e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,19	11,14	15,16,18	9,11,12	N/A
8,10	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	N/A	N/A	15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10	N/A	N/A	N/A	

YBQL7Q — PowerPlex® Fusion 6C — 4e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
[13],15,17.3	[17],18,[19],25	[11],14,14	15,[16],18	9,11,[12]	
[8],10,14	11,[13],14	13,15	21,23,[24]	9,9,[11],[12]	12,12,[14]
15,16,[17]	12,14,[15],[16.2]	[28],29,30	11,15,[17]	X,X,[Y]	10,12
20,[23],26	9,10,[11],[13]	[10],13,[14],16	15,[16],26.2,[27.2]	[6],7,9.3	[8],9,11
15,[16],19	[10]	[22]	[16]		

TABLE 1

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

YKQE9Q — GlobalFiler™ (Item 4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

YKRJWU — GlobalFiler™ (Item 4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

YU2D6M — GlobalFiler™ (STRmix) (Item 4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

YUJ2B3 — PowerPlex® Fusion 6C (STRmix) (Item 4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26	9,10,11,13	10,13,14,16	15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10	22	16		

Z8KHPN — GlobalFiler™ (Item 4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

ZAAR2B — GlobalFiler™ (Item 4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

ZCFR6B — GlobalFiler™ (Item 4e)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,13,14
15,16,17	12,14,15,16.2	28,29,30	11,15,16,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

TABLE 1

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

Item 4e - STR Results

ZMBVBQ — GlobalFiler™ (STRMix)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

ZMZG32 — GlobalFiler™ (STRmix)

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,13,14
15,16,17	12,14,15,16.2	28,29,30	11,15,16,17,18	X,Y	10,12
20,23,26			15,16,17,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

ZQ2H3Y — GlobalFiler™

13,15,[17.3]	17,[18],19,[25]	11,14	15,16,18	[9],11,12	
8,10,14	[11],13,[14]	13,15	21,23,24	9,11,12	12,14
15,16,17	[12],[14],15,16.2	28,29,30	11,15,17	X,Y	10,[12]
[20],23,[26]			[15],16,[26.2],27.2	6,7,9.3	8,[9],[11]
15,16,19	10			2	

ZR8CEP — GlobalFiler™

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

ZW3WNZ — GlobalFiler™

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

ZYPHE3 — Investigator® 24plex QS

(13),15,17.3	(17),18,(19),25	(11),14,14	15,(16),18	9,11,(12)	
(8),10,14	11,(13),14	13,15	21,23,(24)	9,9,(11,12)	12,12,(14)
15,16,(17)	12,14,(15)	(28),29,30	11,15	X,X,(Y)	10,12
20,(23),26			15,26.2	(6),7,9.3	(8),9,11
15,(16),19	(10)				

ZZK6MY — GlobalFiler™

13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

TABLE 1

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

Item 4e - STR Results

ZZZKYF	GlobalFiler™					
	13,15,17.3	17,18,19,25	11,14	15,16,18	9,11,12	
4e	8,10,14	11,13,14	13,15	21,23,24	9,11,12	12,14
	15,16,17	12,14,15,16.2	28,29,30	11,15,17	X,Y	10,12
	20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
	15,16,19	10			2	

TABLE 1

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

Item 4sp - STR Results

WebCode						
27MMNX	PowerPlex® Fusion					
	13,15	17,19	11,14	16,16	11,12	
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	11,13	10,14		6,7	8,8
	16,16	10				
29CZ4U	GlobalFiler™					
	13,15	17,19	11,14	16,16	11,12	
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23			16,27.2	6,7	8,8
	16,16	10			2	
29DNRZ	GlobalFiler™ (STRmix)					
	13,15	17,19	11,14	16	11,12,13	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17,18	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
2A4YEM	GlobalFiler™ (STRmix)					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
2PKPMM	GlobalFiler™					
	13,15	17,19	11,14	16,16	11,12	NA
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	NA	NA	16,27.2	6,7	8,8
	16,16	10	NA	NA	2	
2R422H	GlobalFiler™					
	13,15	17,19	11,14	16,16	11,12	N/A
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	N/A	N/A	16,27.2	6,7	8,8
	16,16	10	N/A	N/A	2	
33KV8K	GlobalFiler™ (STRmix)					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

TABLE 1

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

368REB	GlobalFiler™					
	13,15	17,19	11,14	16,16	11,12	
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23			16,27.2	6,7	8,8
	16,16	10			2	
3A3EEQ	PowerPlex® Fusion 6C					
	13,15	17,19	11,14	16,16	11,12	
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	11,13	10,14	16,27.2	6,7	8,8
	16,16	10	22	16		
3ERXAT	GlobalFiler™					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
3F7HZH	GlobalFiler™					
	13,15	17,19	11,14	16,16	11,12	NA
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	NA	NA	16,27.2	6,7	8,8
	16,16	10	NA	NA	2	
3GEKZV	GlobalFiler™					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
3P9PUW	GlobalFiler™					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
3TDDDT	GlobalFiler™ (STRmix)					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

TABLE 1

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

Item 4sp - STR Results

3TGQ6V — PowerPlex® Fusion (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23	11,13	10,14		6,7	8,8
16,16	10				

3YY7PR — GlobalFiler™ (STRmix) (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

3ZD8H2 — GlobalFiler™ (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

48R2YV — GlobalFiler™ (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

4FK9KM — GlobalFiler™ (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

4HAF9P — PowerPlex® Fusion 6C (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23	11,13	10,14	16,27.2	6,7	8,8
16,16	10	22	16		

63T37H — GlobalFiler™ (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19,[25]	11,14	16,16	11,12	N/A
8,10	13,13	13,15	23,24	[9],11,12	14,14
[15],17,17	15,16.2	28,29,[30]	15,17	X,Y	10,10
23,23,[26]	N/A	N/A	16,27.2	6,7	8,8
16,16	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 4sp - STR Results

6HKM2K — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	13,15	17,19	11,14	16,16	11,12	
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	11,13	10,14	16,27.2	6,7	8,8
	16,16	10	22	16		

6KVF4Y — GlobalFiler™ (STRmix)

4sp	13,15,16	17,19	11,14	16	11,12	
	8,10,11	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17,18	X,Y	10
	23			14,16,27.2	4,6,7	8
	16	10			2	

6XGYEV — GlobalFiler™

4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

7CZW3W — GlobalFiler™

4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

7QWB3P — PowerPlex® Fusion

4sp	13,15	17,19	11,14	16,16	11,12	
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	11,13	10,14		6,7	8,8
	16,16	10				

8DLK2W — GlobalFiler™

4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23,23			16,27.2	6,7	8
	16	10			2	

8GLAGP — GlobalFiler™ (STRmix)

4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17,18	X,Y	10
	23			16,27.2,28.2	6,7	8
	16	10			2	

TABLE 1

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

Item 4sp - STR Results

8LED42 — GlobalFiler™ (STRmix)

Item						
4sp	13,15	17,19	11,14	16,16	11,12	
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23			16,27.2	6,7	8,8
	16,16	10			2	

93XQVY — GlobalFiler™ (STRmix)

Item						
4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

97EXFR — GlobalFiler™

Item						
4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

9X67YP — GlobalFiler™

Item						
4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

9X8GP8 — Investigator® 24plex

Item						
4sp	13,15	17,19	11,14	16	11,12	NT
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23	NT	NT	16,27.2	6,7	8
	16	10	NT	NT	NT	

9XMHQN — GlobalFiler™

Item						
4sp	13,15	17,19	11,14	16,16	11,12	--
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	--	--	16,27.2	6,7	8,8
	16,16	10	--	--	2	

A3FGPX — GlobalFiler™ (STRmix)

Item						
4sp	13,15	17,19	11,14	16,16	11,12	
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23			16,27.2	6,7	8,8
	16,16	10			2	

TABLE 1

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

Item 4sp - STR Results

A7ZQVV — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

AHU399 — PowerPlex® 21 (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19		16,16	11,12	10,11
8,10	13,13		23,24	11,12	14,14
17,17	15,16.2	28,29		X,Y	10,10
23,23	11,13	10,14		6,7	8,8
16,16					

AMLE6Q — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23			16,27.2	6,7	8,8
16,16	10			2	

APPAM9 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

AU88E6 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23			16,27.2	6,7	8,8
16,16	10			2	

AZPVT8 — Identifiler® Plus

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,19		16,16	11,12	
8,10	13,13			11,12	14,14
17,17	15,16.2	28,29		X,Y	10,10
23,23				6,7	8,8
16,16					

B6JYFJ — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

TABLE 1

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

Item 4sp - STR Results

WebCode / Item						
B87XA9 — GlobalFiler™						
4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
BBQK9M — GlobalFiler™						
4sp	13,15	17,19	11,14	16,16	11,12	
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23			16,27.2	6,7	8,8
	16,16	10			2	
BDD6AK — GlobalFiler™ (STRmix)						
4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
BNCXKW — GlobalFiler™ (STRmix)						
4sp	13,15	17,19	11,14	16,16	11,12	
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23			16,27.2	6,7	8,8
	16,16	10			2	
BU4X6K — GlobalFiler™						
4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
BYBTF8 — GlobalFiler™						
4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
CA6DFB — GlobalFiler™						
4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

TABLE 1

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

Item 4sp - STR Results

CBJVJG	PowerPlex® 6C					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23	11,13	10,14	16,27.2	6,7	8
	16	10	22	16		
CFXFGP	PowerPlex® Fusion 5C					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23	11,13	10,14		6,7	8
	16	10				
CKAEYA	GlobalFiler™					
	13,15	17,19	11,14	16,16	11,12	NA
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	NA	NA	16,27.2	6,7	8,8
	16,16	10	NA	NA	2	
CMWX3T	GlobalFiler™					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
CT42XF	GlobalFiler™					
	13,15	17,19	11,14	16,16	11,12	
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23			16,27.2	6,7	8,8
	16,16	10			2	
D74MQB	GlobalFiler™					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
D7NLN9	GlobalFiler™					
	13,15	17,19	11,14	16,16	[9],11,12	NA
4sp	8,10	13,13	13,15	23,24	[9],11,12	13,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	NA	NA	16,27.2	6,7	8,8
	16,[19]	10	NA	NA	2	

TABLE 1

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

D8WKYG PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23	11,13	10,14		6,7	8
16	10				

(4sp)

D9PMQQ GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

(4sp)

DLZY4K GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23			16,27.2	6,7	8,8
16,16	10			2	

(4sp)

DNJ23D PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23	11,13	10,14		6,7	8
16	10				

(4sp)

DV3WUN GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

(4sp)

DWD7VE PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23	11,13	10,14		6,7	8
16	10				

(4sp)

DY6WUL ESI-17

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	(10),11,14	16,16		
	13,13	13,15	23,24		14,14
17,17	15,16.2	28,29	15,17	X,Y	
23,23			16,27.2	6,7	
16,16					

(4sp)

TABLE 1

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

EBAVBC	PowerPlex® Fusion 6C (STRmixV2.5.11)					
4sp	13,15	17,19	11,14	16,16	11,12	
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	11,13	10,14	16,27.2	6,7	8,8
	16,16	10	22	16		
EBXY8T	GlobalFiler™ (STRMIX)					
4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
EEVWLK	GlobalFiler™					
4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
EF9YGD	PowerPlex® Fusion					
4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23	11,13	10,14		6,7	8
	16	10				
EJNPL8	GlobalFiler™					
4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
EPBAUU	GlobalFiler™					
4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
EQRN24	GlobalFiler™					
4sp	13,15	17,19	11,14	16,16	11,12	
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23			16,27.2	6,7	8,8
	16,16	10,0			2,0	

TABLE 1

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

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
F2Z3NH	GlobalFiler™					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
FGG4JM	GlobalFiler™ (TrueAllele)					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
FKVVAF	Investigator® 24plex QS					
	13,15	17,19	11,14	16,16	11,12	N/A
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	N/A	N/A	16,27.2	6,7	8,8
	16,16	10	N/A	N/A	N/A	
FRZV7H	PowerPlex® Fusion					
	13,15	17,19	11,14	16,16	11,12	
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	11,13	10,14		6,7	8,8
	16,16	10				
FU4UEP	PowerPlex® Fusion 6C					
	13,15	17,19	11,14	16,16	11,12	
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	11,13	10,14	16,27.2	6,7	8,8
	16,16	10	22	16		
G22U6G	GlobalFiler™					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
G6FKAC	GlobalFiler™ (STRmix)					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

TABLE 1

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

Item 4sp - STR Results

G6KX2E — PowerPlex® Fusion (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23	11,13	10,14		6,7	8,8
16,16	10				

GF3J33 — GlobalFiler™ (4sp)

13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

GF68NM — GlobalFiler™ (STRmix) (4sp)

13,15	17,19	11,14	16,[17]	11,12	
8,10	13	13,15	23,24	11,12	[13],14
17	15,16.2	28,29	15,17,[18]	X,Y	10
23			16,27.2	6,7	8
16	10			2	

GH7C28 — PowerPlex® Fusion 6C (4sp)

13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23	11,13	10,14	16,27.2	6,7	8,8
16,16	10	22	16		

GQX84R — GlobalFiler™ (4sp)

13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23			16,27.2	6,7	8,8
16,16	10			2	

GYAT2E — GlobalFiler™ (STRmix) (4sp)

13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

H3BPDA — Investigator® 24plex (STRmix) (4sp)

13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23			16,27.2	6,7	8,8
16,16	10				

TABLE 1

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

HABUY6 — 4sp — GlobalFiler™

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15	17,19	11,14	16,16	11,12	N/A
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23	N/A	N/A	16,27.2	6,7	8,8
16,16	10	N/A	N/A	2	

HTJU7J — 4sp — GlobalFiler™

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
(15),17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

HTYUVL — 4sp — Investigator® 24plex QS

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15	17,19	11,14	[15],16	11,12	N/A
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23	N/A	N/A	[15],16,[26.2],27.2	6,7	8
[15],16	10	N/A	N/A	N/A	

J6BRPA — 4sp — PowerPlex® Fusion

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23	11,13	10,14		6,7	8
16	10				

JA38XG — 4sp — GlobalFiler™

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	[9],11,12	[12],14
[15],17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

JLCWRC — 4sp — GlobalFiler™ (STRmix)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

JMVFY4 — 4sp — GlobalFiler™ IQC

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23			16,27.2	6,7	8,8
16,16	10			2	

TABLE 1

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

JPH8U8   4sp — PowerPlex® Fusion 6C (STRmix v. 2.5.11)

D1S1656 / ...					
13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23	11,13	10,14	16,27.2	6,7	8,8
16,16	10	22	16		

JR67DQ   4sp — PowerPlex® 5C

13,15	17,19	11,14	16	11,12	--
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23	11,13	10,14	--	6,7	8
16	10	--	--	--	

JTUUBC   4sp — Investigator® 24plex QS, FLEXPLEX

13,15	17,19	11,14	16,16	11,12	10,11
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23	NA	10,14	16,27.2	6,7	8,8
16,16	10	22	16	NA	

JV66C3   4sp — GlobalFiler™ (STRmix)

13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

K4CWMH   4sp — GlobalFiler™

13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

K69JVF   4sp — PowerPlex® Fusion

13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23	11,13	10,14		6,7	8
16	10				

KGK3BQ   4sp — GlobalFiler™

13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23			16,27.2	6,7	8,8
16,16	10			2	

TABLE 1

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

Item 4sp - STR Results

KK3CUJ — GlobalFiler™

4sp						
	13,15	17,19	11,14	16,16	11,12	
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23			16,27.2	6,7	8,8
	16,16	10			2	

KN3KZE — (Promega ESI17 Fast)

4sp						
	13,15	17,19	11,14	16,16		
		13,13	13,15	23,24		14,14
	17,17	15,16.2	28,29	15,17	X,Y	
	23,23			16,27.2	6,7	
	16,16					

KUCAQM — VERIFILER Plus

4sp						
	13,15	17,19	11,14	16,16	11,12	10,11
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	11,13	10,14		6,7	8,8
	16,16				2	

KXQ3QK — PowerPlex® Fusion 6C

4sp						
	13,15	17,19	11,14	16,16	11,12	
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	11,13	10,14	16,27.2	6,7	8,8
	16,16	10	22	16		

KZUYT2 — GlobalFiler™ (STRmix)

4sp						
	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

LAEPTX — GlobalFiler™

4sp						
	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

LF2DRA — PowerPlex® Fusion

4sp						
	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23	11,13	10,14		6,7	8
	16	10				

TABLE 1

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

Item 4sp - STR Results

LGYQ9B — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

(4sp)

LQ3NCE — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

(4sp)

LZN323 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19,[25]	11,14	16,16	11,12	N/A
8,10	13,13	13,15	23,24	[9],11,12	14,14
[15],17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23,[26]	N/A	N/A	16,27.2	6,7	8,8
16,16	10	N/A	N/A	2	

(4sp)

M89HA7 — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23	11,13	10,14	16,27.2	6,7	8,8
16,16	10	22	16		

(4sp)

MDR3H8 — Investigator® 24plex (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23			16,27.2	6,7	8,8
16,16	10				

(4sp)

MKUCLE — GlobalFiler™ IQC

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23			16,27.2	6,7	8,8
16,16	10			2	

(4sp)

MLQ999 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

(4sp)

TABLE 1

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

MREV2T — PowerPlex® ESX 16 Fast (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15	17,19	11,14	16,16		
	13,13	13,15	23,24		14,14
17,17	15,16.2	28,29	15,17	X,Y	
23,23				6,7	
16,16					

MVTEZ2 — GlobalFiler™ (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15,17.3	17,18,19,25	11,14	15,16	9,11,12	
8,10	11,13	13,15	21,23,24	9,11,12	12,14
15,17	14,15,16.2	28,29	11,15,17	X,Y	10,12
20,23,26			15,16,26.2,27.2	6,7,9.3	8,9,11
15,16,19	10			2	

MYECF6 — PowerPlex® Fusion 6C (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23	11,13	10,14	16,27.2	6,7	8,8
16,16	10	22	16		

N7N2PW — GlobalFiler™ (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15	17,19	11,14	16,16	11,12	N/A
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23	N/A	N/A	16,27.2	6,7	8,8
16,16	10	N/A	N/A	2	

NCGKWF — PowerPlex® ESI 17 Fast (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15	17,19	11,14	16,16		
	13,13	13,15	23,24		14,14
17,17	15,16.2	28,29	15,17	X,Y	
23,23			16,27.2	6,7	
16,16					

NHGYJ3 — GlobalFiler™ (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23			16,27.2	6,7	8,8
16,16	10			2	

NK7VY2 — GlobalFiler™ (4sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

TABLE 1

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

Item 4sp - STR Results

NMWW34 GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

NPYX32 GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

NRATQE GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14,(15)
	17	15,16.2	28,29	15,17,(18)	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

NWZCN3 GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

NYMXE6 PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23	11,13	10,14		6,7	8
	16	10				

NZNL3A GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,15	17,19	11,14	16,16	11,12	
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23			16,27.2	6,7	8,8
	16,16	10			2	

P2P9RJ GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

TABLE 1

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

PFBJGA — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

PHGHKB — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23	11,13	10,14	16,27.2	6,7	8
16	10	22	16		

PRPTCA — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

PUU66A — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17,18	X,Y	10
23			16,27.2	6,7	8
16	10			2	

PWFQVC — NGM SElect

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16,16		
	13,13	13,15	23,24		14,14
17,17	15,16.2	28,29	15,17	X,Y	
23,23			16,27.2	6,7	
16,16					

Q4AU88 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

Q736E9 — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23	11,13	10,14		6,7	8,8
16,16	10				

TABLE 1

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

Item 4sp - STR Results

Q7YJMY	PowerPlex® Fusion 6C (STRmix)					
	13,15	17,19	11,14	16,16	11,12	
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	11,13	10,14	16,27.2	6,7	8,8
	16,16	10	22	16		
Q98W62	PowerPlex® Fusion 6C (STRmix v2.5.11)					
	13,15	17,19	11,14	16,16	11,12	
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	11,13	10,14	16,27.2	6,7	8,8
	16,16	10	22	16		
QAZUET	GlobalFiler™					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
QCPUYH	GlobalFiler™ (STRmix)					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	22,23,24	11,12	13,14
	17	15,16.2	28,29	15,17,18	X,Y	10
	23			16,17,27.2	6,7	8
	16	10			2	
QDHR8P	GlobalFiler™					
	13,15	17,19	11,14	16,16	11,12	
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23			16,27.2	6,7	8,8
	16,16	10			2	
QM9HK6	GlobalFiler™ (STRmix)					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
R24E6E	GlobalFiler™ (STRmix)					
	13,15	17,19	11,14	16,16	11,12	
4sp	8,10	13,13	13,15	21,23,24	11,12	14,14
	17,17	12,15,16.2	28,29	15,17	X,Y	10,10
	23,23			16,27.2	6,7	8,8
	16,16	10			2	

TABLE 1

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

WebCode / Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
RGEBQH — AmpFlSTR NGM Detect (4sp)	13,15	17,19	11,14	16		
		13	13,15	23,24		14
	17	15,16.2	28,29	15,17	X,Y	
	23			16,27.2	6,7	
	16				2	
RJHQVK — GlobalFiler™ (4sp)	13,15	17,19	11,14	16,16	11,12	
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23			16,27.2	6,7	8,8
	16,16	10			2	
RRDQBX — PowerPlex® Fusion 6C (4sp)	13,15	17,19	11,14	16,16	11,12	
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	11,13	10,14	16,27.2	6,7	8,8
	16,16	10	22	16		
RU6PLP — GlobalFiler™ (4sp)	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
RXNMDL — GlobalFiler™ (4sp)	13,15	17,19	11,14	16,16	11,12	
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23			16,27.2	6,7	8,8
	16,16	10			2	
T3UVXM — GlobalFiler™ (4sp)	13,15	17,19	11,14	16,16	11,12	
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23			16,27.2	6,7	8,8
	16,16	10			2	
T6H6AA — GlobalFiler™ (4sp)	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

TABLE 1

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

Item 4sp - STR Results

TF643Z	PowerPlex® Fusion 6C (STRmix V2.5.11)					
	13,15	17,19	11,14	16,16	11,12	N/A
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	11,13	10,14	16,27.2	6,7	8,8
	16,16	10	22	16	N/A	
TFZT3M	GlobalFiler™					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
TJFXLX	PowerPlex® ESI17_FAST					
	13,15	17,19	11,14	16,16		
4sp		13,13	13,15	23,24		14,14
	17,17	15,16.2	28,29	15,17	X,Y	
	23,23			16,27.2	6,7	
	16,16					
TW7ZBX	GlobalFiler™					
	13,15	17,19	11,14	16,16	11,12	
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23			16,27.2	6,7	8,8
	16,16	10			2	
UCXC3Y	GlobalFiler™					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
UQUQ3R	GlobalFiler™					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
VYNWWT	GlobalFiler™					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

TABLE 1

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

Item 4sp - STR Results

VZY9L6	ESI-17 Fast					
	13,15	17,19	11,14	16,16		
4sp		13,13	13,15	23,24		14,14
	17,17	15,16.2	28,29	15,17	X,Y	
	23,23			16,27.2	6,7	
	16,16					
W6B4VD	GlobalFiler™ (STRmix)					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
W6M3QM	GlobalFiler™					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
WCQPW6	PowerPlex® Fusion					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23	11,13	10,14		6,7	8
	16	10				
WKK6CZ	PowerPlex® Fusion					
	13,15	17,19	11,14	16,16	11,12	
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	11,13	10,14		6,7	8,8
	16,16	10				
WVZYMU	PowerPlex® Fusion 6C (STRMIX)					
	13,15	17,19	11,14	16,16	11,12	
4sp	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	11,13	10,14	16,27.2	6,7	8,8
	16,16	10	22	16		
X3BK6W	GlobalFiler™ (STRmix)					
	13,15	17,19	11,14	16	11,12	
4sp	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	20,23			16,27.2	6,7	8
	16	10			2	

TABLE 1

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

WebCode / Item						
XACZRH	GlobalFiler™					
4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
XAGATV	PowerPlex® Fusion 6C					
4sp	13,15	17,19	11,14	16,16	11,12	
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	11,13	10,14	16,27.2	6,7	8,8
	16,16	10	22	16		
XPT8ZW	GlobalFiler™					
4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	
XZAK6Y	GlobalFiler™					
4sp	13,15	17,19	11,14	16,16	11,12	
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23			16,27.2	6,7	8,8
	16,16	10			2	
Y86EPX	Investigator® 24plex QS					
4sp	13,15	17,19	11,14	16,16	11,12	N/A
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	N/A	N/A	16,27.2	6,7	8,8
	16,16	10	N/A	N/A	N/A	
YBQL7Q	PowerPlex® Fusion 6C					
4sp	13,15	17,19	11,14	16,16	11,12	
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23	11,13	10,14	16,27.2	6,7	8,8
	16,16	10	22	16		
YKQE9Q	GlobalFiler™					
4sp	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

TABLE 1

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

Item 4sp - STR Results

YKRJWU GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

(4sp)

YU2D6M GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

(4sp)

YUJ2B3 PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23	11,13	10,14	16,27.2	6,7	8
16	10	22	16		

(4sp)

Z8KHPN GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16	11,12	
8,10	13	13,15	23,24	11,12	14
17	15,16.2	28,29	15,17	X,Y	10
23			16,27.2	6,7	8
16	10			2	

(4sp)

ZAAR2B GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23			16,27.2	6,7	8,8
16,16	10			2	

(4sp)

ZCFR6B GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23			16,27.2	6,7	8,8
16,16	10			2	

(4sp)

ZMBVBQ GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,15	17,19	11,14	16,16	11,12	
8,10	13,13	13,15	23,24	11,12	14,14
17,17	15,16.2	28,29	15,17	X,Y	10,10
23,23			16,27.2	6,7	8,8
16,16	10			2	

(4sp)

TABLE 1

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

ZMZG32 — GlobalFiler™ (STRmix)

4sp	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17,18	X,Y	10
	23			14,16,27.2	6,7	8
	16	10			2	

ZQ2H3Y — GlobalFiler™

4sp	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

ZR8CEP — GlobalFiler™

4sp	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

ZW3WNZ — GlobalFiler™

4sp	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

ZYPHE3 — Investigator® 24plex QS

4sp	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,15	17,19	11,14	16,16	11,12	
	8,10	13,13	13,15	23,24	11,12	14,14
	17,17	15,16.2	28,29	15,17	X,Y	10,10
	23,23			16,27.2	6,7	8,8
	16,16	10				

ZZK6MY — GlobalFiler™

4sp	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

ZZZKYF — GlobalFiler™

4sp	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,15	17,19	11,14	16	11,12	
	8,10	13	13,15	23,24	11,12	14
	17	15,16.2	28,29	15,17	X,Y	10
	23			16,27.2	6,7	8
	16	10			2	

YSTR Amplification Kit(s) & Results

TABLE 2

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

Item 1 - YSTR Results

JR67DQ	PowerPlex® Y 23							
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1	--	--	--	--	--	--	--	--	--
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KUCAQM	PowerPlex® Y 23							
1								

TABLE 2

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

Amplification Kit

Item 2 - YSTR Results

27MMNX — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		26
	12	12	19	16			21	12	11

2PKPMM — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	NA	15	14,15	14	32	23	10	12	13
2	14	10	11	20	NA	16	14	NA	NA
	NA	NA	NA	NA	NA	NA	21	NA	11

2R422H — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	N/A	15	14,15	14	32	23	10	12	13
2	14	10	11	20	N/A	16	14	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	21	N/A	11

368REB — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	36,36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

3ERXAT — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		
							21		11

3F7HZH — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	NA	15	14,15	14	32	23	10	12	13
2	14	10	11	20	NA	16	14	NA	NA
	NA	NA	NA	NA	NA	NA	21	NA	11

3GEKZV — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		
							21		11

3TDDDT — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		26
	12	12	19	16			21	12	11

3TGQ6V — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		26
	12	12	19	16			21	12	11

48R2YV — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		
							21		11

4DBLAH — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		26
	12	12	19	16			21	12	11

4FK9KM — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		
							21		11

TABLE 2

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

Item 2 - YSTR Results

WebCode / Item									
4HAF9P	Yfiler™								
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		
							21		11
63T37H	Yfiler™								
	N/A	15	14,15	14	32	23	10	12	13
2	14	10	11	20	N/A	16	14	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	21	N/A	11
6HKM2K	PowerPlex® Y 23								
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		26
	12	12	19	16			21	12	11
6QUM6E	PowerPlex® Y 23								
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		26
	12	12	19	16			21	12	11
6XGYEV	Yfiler™								
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		
							21		11
7QWB3P	PowerPlex® Y 23								
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		26
	12	12	19	16			21	12	11
8DLK2W	Yfiler™ Plus								
	36,36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
97EXFR	Yfiler™								
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		
							21		11
A4E66U	Yfiler™ Plus								
	36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
APPAM9	Yfiler™ Plus								
	36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
B87XA9	Yfiler™ Plus								
	36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
BYBTF8	Yfiler™ Plus								
	36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

TABLE 2

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

Item 2 - YSTR Results

CBJVJG — Yfiler™ Plus — Item 2

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
36	15	14,15	14	32	23	10	12	13
14	10	11	20	28	16	14	12	26
39	12		19	16	20	21		11

CDPVKV — PowerPlex® Y 23 — Item 2

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	15	14,15	14	32	23	10	12	13
14	10	11	20		16	14		26
12	12		19	16		21	12	11

CFXFGP — Yfiler™ Plus — Item 2

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
36	15	14,15	14	32	23	10	12	13
14	10	11	20	28	16	14	12	26
39	12		19	16	20	21		11

CKAEYA — Yfiler™ — Item 2

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
NA	15	14,15	14	32	23	10	12	13
14	10	11	20	NA	16	14	NA	NA
NA	NA	NA	NA	NA	NA	21	NA	11

CT42XF — Yfiler™ Plus — Item 2

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
36,36	15	14,15	14	32	23	10	12	13
14	10	11	20	28	16	14	12	26
39	12		19	16	20	21		11

D74MQB — Yfiler™ Plus — Item 2

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
36	15	14,15	14	32	23	10	12	13
14	10	11	20	28	16	14	12	26
39	12		19	16	20	21		11

D7NLN9 — Yfiler™ — Item 2

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
NA	15	14,15	14	32	23	10	12	13
14	10	11	20	NA	16	14	NA	NA
NA	NA	NA	NA	NA	NA	21	NA	11

D8WKYG — Yfiler™ Plus — Item 2

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
36	15	14,15	14	32	23	10	12	13
14	10	11	20	28	16	14	12	26
39	12		19	16	20	21		11

DNJ23D — Yfiler™ Plus — Item 2

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
36	15	14,15	14	32	23	10	12	13
14	10	11	20	28	16	14	12	26
39	12		19	16	20	21		11

DV3WUN — Yfiler™ Plus — Item 2

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
36	15	14,15	14	32	23	10	12	13
14	10	11	20	28	16	14	12	26
39	12		19	16	20	21		11

DWD7VE — Yfiler™ Plus — Item 2

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
36	15	14,15	14	32	23	10	12	13
14	10	11	20	28	16	14	12	26
39	12		19	16	20	21		11

EBAVBC — Yfiler™ — Item 2

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	15	14,15	14	32	23	10	12	13
14	10	11	20		16	14		
						21		11

TABLE 2

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

Item 2 - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
EEVWLK Yfiler™									
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		
						21			11
EF9YGD Yfiler™ Plus									
	36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
EJNPL8 Yfiler™ Plus									
	36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
F2Z3NH Yfiler™									
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		
						21			11
FRZV7H PowerPlex® Y 23									
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		26
	12	12	19	16		21	12		11
G22U6G Yfiler™									
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		
						21			11
G6FKAC PowerPlex® Y 23									
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		26
	12	12	19	16		21	12		11
G6KX2E PowerPlex® Y 23									
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		26
	12	12	19	16		21	12		11
GF3J33 Yfiler™ Plus									
	36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
GF68NM Yfiler™ Plus									
	36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
GQX84R Yfiler™ Plus									
	36,36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
H3BPDA Yfiler™									
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		
						21			11

TABLE 2

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

Item 2 - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
HABUY6 — Yfiler™ (Item 2)	N/A	15	14,15	14	32	23	10	12	13
	14	10	11	20	N/A	16	14	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	21	N/A	11
HQX8FH — Yfiler™ Plus (Item 2)	36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
HTJU7J — Yfiler™ Plus (Item 2)	36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
J6BRPA — Yfiler™ Plus (Item 2)	36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
JPH8U8 — Yfiler™ (Item 2)		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		
							21		11
JR67DQ — PowerPlex® Y 23 (Item 2)	--	15	14,15	14	32	23	10	12	13
	14	10	11	20	--	16	14	--	26
	--	12	12	19	16	--	21	12	11
K4CWMH — PowerPlex® Y 23 (Item 2)		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		26
		12	12	19	16		21	12	11
K69JVF — Yfiler™ Plus (Item 2)	36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
KGK3BQ — Yfiler™ Plus (Item 2)	36,36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
KUCAQM — PowerPlex® Y 23 (Item 2)		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		26
		12	12	19	16		21	12	11
LAEPTX — Yfiler™ Plus (Item 2)	36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
LGYQ9B — Yfiler™ (Item 2)		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		
							21		11

TABLE 2

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

Item 2 - YSTR Results

LZN323 — Yfiler™

Item	DYF387S1/DYS437/DYS518	DYS19/DYS438/DYS533	DYS385/DYS439/DYS549	DYS389-I/DYS448/DYS570	DYS389-II/DYS449/DYS576	DYS390/DYS456/DYS627	DYS391/DYS458/DYS635	DYS392/DYS460/DYS643	DYS393/DYS481/Y GATA H4
	N/A	15	14,15	14	32	23	10	12	13
2	14	10	11	20	N/A	16	14	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	21	N/A	11

M9EJWJ — PowerPlex® Y 23

Item									
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		26
	12	12	19	16			21	12	11

MDR3H8 — Yfiler™

Item									
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		
							21		11

MKUCLE — Yfiler™ Plus

Item									
	36,36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

MYECF6 — Yfiler™

Item									
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		
							21		11

N7N2PW — Yfiler™

Item									
	N/A	15	14,15	14	32	23	10	12	13
2	14	10	11	20	N/A	16	14	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	21	N/A	11

NHGYJ3 — PowerPlex® Y 23

Item									
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		26
	12	12	19	16			21	12	11

NK7VY2 — Yfiler™ Plus

Item									
	36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

NPYX32 — Yfiler™ Plus

Item									
	36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

NWZCN3 — Yfiler™

Item									
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		
							21		11

NYMXE6 — Yfiler™ Plus

Item									
	36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

P2P9RJ — Yfiler™ Plus

Item									
	36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

TABLE 2

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

Item 2 - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
PHGHKB — PowerPlex® Y 23									
2		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		26
	12	12	19	16			21	12	11
PRPTCA — Yfiler™									
2		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		
							21		11
PUTQKH — PowerPlex® Y 23									
2		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		26
	12	12	19	16			21	12	11
Q4AU88 — Yfiler™									
2		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		
							21		11
Q736E9 — PowerPlex® Y 23									
2		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		26
	12	12	19	16			21	12	11
Q7YJMY — Yfiler™									
2		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		
							21		11
Q98W62 — Yfiler™									
2		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		
							21		11
QAZUET — Yfiler™ Plus									
2	36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
QERG9V — PowerPlex® Y									
2		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		26
	12	12	19	16			21	12	11
R24E6E — Yfiler™ Plus									
2	36,36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
R3WLBR — PowerPlex® Y									
2	-	15	14,15	14	32	23	10	12	13
	14	10	11	20	-	16	14	-	26
	-	12	12	19	16	-	21	12	11
RGEBQH — PowerPlex® Y									
2		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		26
	12	12	19	16			21	12	11

TABLE 2

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

Item 2 - YSTR Results

RRDQBX — Yfiler™ (Item 2)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		
							21		11

RU6PLP — Yfiler™ Plus (Item 2)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

TF643Z — Yfiler™ (Item 2)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	N/A	15	14,15	14	32	23	10	12	13
	14	10	11	20	N/A	16	14	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	21	N/A	11

TFZT3M — Yfiler™ Plus (Item 2)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

TW7ZBX — Yfiler™ Plus (Item 2)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	36,36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

UCXC3Y — Yfiler™ (Item 2)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		
							21		11

UQUQ3R — Yfiler™ Plus (Item 2)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

VXAPCX — Yfiler™ Plus (Item 2)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

VYNWWT — Yfiler™ Plus (Item 2)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

W6M3QM — Yfiler™ Plus (Item 2)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

WCQPW6 — Yfiler™ Plus (Item 2)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

WKK6CZ — PowerPlex® Y 23 (Item 2)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		26
		12	12	19	16		21	12	11

TABLE 2

WebCode / Item	DYF387S1 DYS437 DYS518	DYS19 DYS438 DYS533	DYS385 DYS439 DYS549	DYS389-I DYS448 DYS570	DYS389-II DYS449 DYS576	DYS390 DYS456 DYS627	DYS391 DYS458 DYS635	DYS392 DYS460 DYS643	DYS393 DYS481 Y GATA H4
Item 2 - YSTR Results									
WRDWKA PowerPlex® Y 23									
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		26
	12	12	19	16			21	12	11
WVZYMU Yfiler™									
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		
							21		11
XACZRH Yfiler™ Plus									
	36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
XPT8ZW Yfiler™									
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		
							21		11
YBN29P PowerPlex® Y 23									
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		26
	12	12	19	16			21	12	11
YKQE9Q Yfiler™ Plus									
	36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
YKRJWU Yfiler™									
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		
							21		11
YU2D6M PowerPlex® Y 23									
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		26
	12	12	19	16			21	12	11
Z8KHPN Yfiler™ Plus									
	36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
ZAAR2B Yfiler™ Plus									
	36,36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
ZMBVBQ PowerPlex® Y 23									
		15	14,15	14	32	23	10	12	13
2	14	10	11	20		16	14		26
	12	12	19	16			21	12	11
ZMZG32 Yfiler™ Plus									
	36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

TABLE 2

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

Item 2 - YSTR Results

	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
ZR8CEP Yfiler™ Plus									
	36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
ZYPHE3 Yfiler™ Plus									
	36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
ZZZKYF Yfiler™ Plus									
	36	15	14,15	14	32	23	10	12	13
2	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

TABLE 2

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

Item 3 - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
27MMNX — PowerPlex® Y 23		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		26
	12	12	19	16			21	12	11
2PKPMM — Yfiler™	NA	15	14,15	14	32	23	10	12	13
3	14	10	11	20	NA	16	14	NA	NA
	NA	NA	NA	NA	NA	NA	21	NA	11
2R422H — Yfiler™	N/A	15	14,15	14	32	23	10	12	13
3	14	10	11	20	N/A	16	14	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	21	N/A	11
368REB — Yfiler™ Plus	36,36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
3A3EEQ — Yfiler™		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11
3ERXAT — Yfiler™		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11
3F7HZH — Yfiler™	NA	15	14,15	14	32	23	10	12	13
3	14	10	11	20	NA	16	14	NA	NA
	NA	NA	NA	NA	NA	NA	21	NA	11
3GEKZV — Yfiler™		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11
3NXFR7 — Yfiler™ Plus	36,36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
3TDDDT — PowerPlex® Y 23		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		26
	12	12	19	16			21	12	11
3TGQ6V — PowerPlex® Y 23		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		26
	12	12	19	16			21	12	11
48R2YV — Yfiler™		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11

TABLE 2

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

Item 3 - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
4DBLAH PowerPlex® Y 23		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		26
	12	12	19	16			21	12	11
4FK9KM Yfiler™		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11
4HAF9P Yfiler™		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11
63T37H Yfiler™	N/A	15	14,15	14	32	23	10	12	13
3	14	10	11	20	N/A	16	14	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	21	N/A	11
6HKM2K PowerPlex® Y 23		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		26
	12	12	19	16			21	12	11
6QUM6E PowerPlex® Y 23		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		26
	12	12	19	16			21	12	11
6XGYEV Yfiler™		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11
7QWB3P PowerPlex® Y 23		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		26
	12	12	19	16			21	12	11
8DLK2W Yfiler™ Plus	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
97EXFR Yfiler™		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11
APPAM9 Yfiler™ Plus	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
B87XA9 Yfiler™ Plus	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

TABLE 2

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

Item 3 - YSTR Results

BYBTF8	Yfiler™ Plus								
	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
CBJVJG	Yfiler™ Plus								
	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
CDPVKV	PowerPlex® Y 23								
		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		26
		12	12	19	16		21	12	11
CFXFGP	Yfiler™ Plus								
	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
CKAEYA	Yfiler™								
	NA	15	14,15	14	32	23	10	12	13
3	14	10	11	20	NA	16	14	NA	NA
	NA	NA	NA	NA	NA	NA	21	NA	11
CT42XF	Yfiler™ Plus								
	36,36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
D74MQB	Yfiler™ Plus								
	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
D7NLN9	Yfiler™								
	NA	15	14,15	14	32	23	10	12	13
3	14	10	11	20	NA	16	14	NA	NA
	NA	NA	NA	NA	NA	NA	21	NA	11
D8WKYG	Yfiler™ Plus								
	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
DNJ23D	Yfiler™ Plus								
	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
DV3WUN	Yfiler™ Plus								
	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
DWD7VE	Yfiler™ Plus								
	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

TABLE 2

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

Item 3 - YSTR Results

Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
EBAVBC — Yfiler™		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
						21			11
EEVWLK — Yfiler™		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
						21			11
EF9YGD — Yfiler™ Plus	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
EJNPL8 — Yfiler™ Plus	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
F2Z3NH — Yfiler™		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
						21			11
FRZV7H — PowerPlex® Y 23		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		26
		12	12	19	16		21	12	11
G22U6G — Yfiler™		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
						21			11
G6FKAC — PowerPlex® Y 23		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		26
		12	12	19	16		21	12	11
G6KX2E — PowerPlex® Y 23		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		26
		12	12	19	16		21	12	11
GF3J33 — Yfiler™ Plus	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
GF68NM — Yfiler™ Plus	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
GQX84R — Yfiler™ Plus	36,36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

TABLE 2

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

Item 3 - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
H3BPDA — Yfiler™		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11
HABUY6 — Yfiler™	N/A	15	14,15	14	32	23	10	12	13
3	14	10	11	20	N/A	16	14	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	21	N/A	11
HTJU7J — Yfiler™ Plus	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
J6BRPA — Yfiler™ Plus	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
JPH8U8 — Yfiler™		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11
JR67DQ — PowerPlex® Y 23	--	15	14,15	14	32	23	10	12	13
3	14	10	11	20	--	16	14	--	26
	--	12	12	19	16	--	21	12	11
K69JVF — Yfiler™ Plus	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
KUCAQM — PowerPlex® Y 23		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		26
		12	12	19	16		21	12	11
LAEPTX — Yfiler™ Plus	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
LGYQ9B — Yfiler™		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11
LZN323 — Yfiler™	N/A	15	14,15	14	32	23	10	12	13
3	14	10	11	20	N/A	16	14	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	21	N/A	11
M89HA7 — Yfiler™		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11

TABLE 2

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

Item 3 - YSTR Results

M9EJWJ — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		26
	12	12	19	16			21	12	11

MDR3H8 — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11

MKUCLE — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	36,36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

MYECF6 — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11

N7N2PW — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	N/A	15	14,15	14	32	23	10	12	13
3	14	10	11	20	N/A	16	14	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	21	N/A	11

NHGYJ3 — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		26
	12	12	19	16			21	12	11

NK7VY2 — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

NPYX32 — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

NWZCN3 — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11

NYMXE6 — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

P2P9RJ — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

PHGHKB — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		26
	12	12	19	16			21	12	11

TABLE 2

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

Item 3 - YSTR Results

Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
PRPTCA — Yfiler™									
		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11
PUTQKH — PowerPlex® Y 23									
		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		26
		12	12	19	16		21	12	11
Q4AU88 — Yfiler™									
		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11
Q736E9 — PowerPlex® Y 23									
		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		26
		12	12	19	16		21	12	11
Q7YJMY — Yfiler™									
		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11
Q98W62 — Yfiler™									
		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11
QAZUET — Yfiler™ Plus									
	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
QERG9V — PowerPlex® Y									
		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		26
		12	12	19	16		21	12	11
R24E6E — Yfiler™ Plus									
	36,36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
R3WLBR — PowerPlex® Y									
	-	15	14,15	14	32	23	10	12	13
3	14	10	11	20	-	16	14	-	26
	-	12	12	19	16	-	21	12	11
RGEBQH — PowerPlex® Y									
		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		26
		12	12	19	16		21	12	11
RRDQBX — Yfiler™									
		15	14,15	14	32	23	10	12	13
3	14	10	11	20		16	14		
							21		11

TABLE 2

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

Item 3 - YSTR Results

RU6PLP — Yfiler™ Plus — Item 3

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
36	15	14,15	14	32	23	10	12	13
14	10	11	20	28	16	14	12	26
39	12		19	16	20	21		11

TF643Z — Yfiler™ — Item 3

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
N/A	15	14,15	14	32	23	10	12	13
14	10	11	20	N/A	16	14	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	21	N/A	11

TFZT3M — Yfiler™ Plus — Item 3

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
36	15	14,15	14	32	23	10	12	13
14	10	11	20	28	16	14	12	26
39	12		19	16	20	21		11

UCXC3Y — Yfiler™ — Item 3

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	15	14,15	14	32	23	10	12	13
14	10	11	20		16	14		
						21		11

UQUQ3R — Yfiler™ Plus — Item 3

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
36	15	14,15	14	32	23	10	12	13
14	10	11	20	28	16	14	12	26
39	12		19	16	20	21		11

VXAPCX — Yfiler™ Plus — Item 3

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
36	15	14,15	14	32	23	10	12	13
14	10	11	20	28	16	14	12	26
39	12		19	16	20	21		11

VYNWWT — Yfiler™ Plus — Item 3

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
36	15	14,15	14	32	23	10	12	13
14	10	11	20	28	16	14	12	26
39	12		19	16	20	21		11

W6M3QM — Yfiler™ Plus — Item 3

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
36	15	14,15	14	32	23	10	12	13
14	10	11	20	28	16	14	12	26
39	12		19	16	20	21		11

WCQPW6 — Yfiler™ Plus — Item 3

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
36	15	14,15	14	32	23	10	12	13
14	10	11	20	28	16	14	12	26
39	12		19	16	20	21		11

WKK6CZ — PowerPlex® Y 23 — Item 3

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	15	14,15	14	32	23	10	12	13
14	10	11	20		16	14		26
12	12		19	16		21	12	11

WRDWKA — PowerPlex® Y 23 — Item 3

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	15	14,15	14	32	23	10	12	13
14	10	11	20		16	14		26
12	12		19	16		21	12	11

WVZYMU — Yfiler™ — Item 3

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	15	14,15	14	32	23	10	12	13
14	10	11	20		16	14		
						21		11

TABLE 2

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

Item 3 - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
XACZRH — Yfiler™ Plus									
3	36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
XAGATV — Yfiler™									
3		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		
							21		11
XPT8ZW — Yfiler™									
3		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		
							21		11
YBN29P — PowerPlex® Y 23									
3		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		26
		12	12	19	16		21	12	11
YKQE9Q — Yfiler™ Plus									
3	36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
YKRJWU — Yfiler™									
3		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		
							21		11
YU2D6M — PowerPlex® Y 23									
3		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		26
		12	12	19	16		21	12	11
Z8KHPN — Yfiler™ Plus									
3	36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
ZAAR2B — Yfiler™ Plus									
3	36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
ZMBVBQ — PowerPlex® Y 23									
3		15	14,15	14	32	23	10	12	13
	14	10	11	20		16	14		26
		12	12	19	16		21	12	11
ZMZG32 — Yfiler™ Plus									
3	36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
ZR8CEP — Yfiler™ Plus									
3	36	15	14,15	14	32	23	10	12	13
	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

TABLE 2

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

Item 3 - YSTR Results

ZYPHE3	Yfiler™ Plus								
	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11
ZZZKYF	Yfiler™ Plus								
	36	15	14,15	14	32	23	10	12	13
3	14	10	11	20	28	16	14	12	26
	39	12		19	16	20	21		11

TABLE 2

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

Item 4 - YSTR Results

4DBLAH — PowerPlex® Y 23 — Item 4

	DYF387S1/DYS437/DYS518	DYS19/DYS438/DYS533	DYS385/DYS439/DYS549	DYS389-I/DYS448/DYS570	DYS389-II/DYS449/DYS576	DYS390/DYS456/DYS627	DYS391/DYS458/DYS635	DYS392/DYS460/DYS643	DYS393/DYS481/Y GATA H4
row1		14	14,14	12	28	22	10	11	13
row2	16	10	11	20		14	15		25
row3	11	12	22	16		22	12	11	

6QUM6E — PowerPlex® Y 23 — Item 4

	DYF387S1/DYS437/DYS518	DYS19/DYS438/DYS533	DYS385/DYS439/DYS549	DYS389-I/DYS448/DYS570	DYS389-II/DYS449/DYS576	DYS390/DYS456/DYS627	DYS391/DYS458/DYS635	DYS392/DYS460/DYS643	DYS393/DYS481/Y GATA H4
row1		14	14,14	12	28	22	10	11	13
row2	16	10	11	20		14	15		25
row3	11	12	22	16		22	12	11	

CDPVKV — Item 4

	DYF387S1/DYS437/DYS518	DYS19/DYS438/DYS533	DYS385/DYS439/DYS549	DYS389-I/DYS448/DYS570	DYS389-II/DYS449/DYS576	DYS390/DYS456/DYS627	DYS391/DYS458/DYS635	DYS392/DYS460/DYS643	DYS393/DYS481/Y GATA H4
row1		14	14	12	28	22	10	11	13
row2	16	10	11	20		14	15		25
row3	11	12	22	16		22	12	11	

EQRN24 — Yfiler™ — Item 4

(no results reported)

M9EJWJ — PowerPlex® Y 23 — Item 4

	DYF387S1/DYS437/DYS518	DYS19/DYS438/DYS533	DYS385/DYS439/DYS549	DYS389-I/DYS448/DYS570	DYS389-II/DYS449/DYS576	DYS390/DYS456/DYS627	DYS391/DYS458/DYS635	DYS392/DYS460/DYS643	DYS393/DYS481/Y GATA H4
row1		14	14,14	12	28	22	10	11	13
row2	16	10	11	20		14	15		25
row3	11	12	22	16		22	12	11	

PUTQKH — PowerPlex® Y 23 — Item 4

	DYF387S1/DYS437/DYS518	DYS19/DYS438/DYS533	DYS385/DYS439/DYS549	DYS389-I/DYS448/DYS570	DYS389-II/DYS449/DYS576	DYS390/DYS456/DYS627	DYS391/DYS458/DYS635	DYS392/DYS460/DYS643	DYS393/DYS481/Y GATA H4
row1		14	14,14	12	28	22	10	11	13
row2	16	10	11	20		14	15		25
row3	11	12	22	16		22	12	11	

QERG9V — PowerPlex® Y — Item 4

	DYF387S1/DYS437/DYS518	DYS19/DYS438/DYS533	DYS385/DYS439/DYS549	DYS389-I/DYS448/DYS570	DYS389-II/DYS449/DYS576	DYS390/DYS456/DYS627	DYS391/DYS458/DYS635	DYS392/DYS460/DYS643	DYS393/DYS481/Y GATA H4
row1		14	14,14	12	28	22	10	11	13
row2	16	10	11	20		14	15		25
row3	11	12	22	16		22	12	11	

R3WLBR — Item 4

	DYF387S1/DYS437/DYS518	DYS19/DYS438/DYS533	DYS385/DYS439/DYS549	DYS389-I/DYS448/DYS570	DYS389-II/DYS449/DYS576	DYS390/DYS456/DYS627	DYS391/DYS458/DYS635	DYS392/DYS460/DYS643	DYS393/DYS481/Y GATA H4
row1	-	14	14,14	12	28	22	10	11	13
row2	16	10	11	20	-	14	15	-	25
row3	-	11	12	22	16	-	22	12	11

WRDWKA — PowerPlex® Y 23 — Item 4

	DYF387S1/DYS437/DYS518	DYS19/DYS438/DYS533	DYS385/DYS439/DYS549	DYS389-I/DYS448/DYS570	DYS389-II/DYS449/DYS576	DYS390/DYS456/DYS627	DYS391/DYS458/DYS635	DYS392/DYS460/DYS643	DYS393/DYS481/Y GATA H4
row1		14	14,14	12	28	22	10	11	13
row2	16	10	11	20		14	15		25
row3	11	12	22	16		22	12	11	

YBN29P — PowerPlex® Y 23 — Item 4

	DYF387S1/DYS437/DYS518	DYS19/DYS438/DYS533	DYS385/DYS439/DYS549	DYS389-I/DYS448/DYS570	DYS389-II/DYS449/DYS576	DYS390/DYS456/DYS627	DYS391/DYS458/DYS635	DYS392/DYS460/DYS643	DYS393/DYS481/Y GATA H4
row1		14	14,14	12	28	22	10	11	13
row2	16	10	11	20		14	15		25
row3	11	12	22	16		22	12	11	

TABLE 2

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

Item 4e - YSTR Results

Item									
27MMNX	PowerPlex® Y 23								
		14	BST	NR	NR	22	10	11	13
4e	NR	10	11	NR		14	15		25
		11	NR	22	16		22	12	11
2PKPMM	Yfiler™								
	NA	14	14,14	12	28	22	10	11	13
4e	16	10	11	20	NA	14	15	NA	NA
	NA	NA	NA	NA	NA	NA	22	NA	11
2R422H	Yfiler™								
	N/A	14	14,14	12	28	22	10	11	13
4e	16	10	11	20	N/A	14	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
368REB	Yfiler™ Plus								
	36,37	14	14,14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
3A3EEQ	Yfiler™								
4e									
3ERXAT	Yfiler™								
4e									
3F7HZH	Yfiler™								
	NA	14	14,14	12	28	22	10	11	13
4e	16	10	11	20	NA	14	15	NA	NA
	NA	NA	NA	NA	NA	NA	22	NA	11
3GEKZV	Yfiler™								
		14	14	12	28	22	10	11	13
4e	16	10	11	20		14	15		
							22		11
3TDDDT	PowerPlex® Y 23								
		14	14	12	28	22	10	11	13
4e	16	10	11	20		14	15		25
		11	12	22	16		22	12	11
3TGQ6V	PowerPlex® Y 23								
		14	14	12	28	22	10	11	13
4e	16	10	11	20		14	15		25
		11	12	22	16		22	12	11
48R2YV	Yfiler™								
4e									
4FK9KM	Yfiler™								
4e									

TABLE 2

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

Item 4e - YSTR Results

WebCode / Item									
4HAF9P	Yfiler™								
4e									
63T37H	Yfiler™								
	N/A	14	14,14	12	28	22	10	11	13
4e	16	10	11	20	N/A	14	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
6HKM2K	PowerPlex® Y 23								
		14	14,14	12	28	22	10	11	13
4e	16	10	11	20		14	15		25
		11	12	22	16		22	12	11
6XGYEV	Yfiler™								
4e									
7QWB3P	PowerPlex® Y 23								
		14	14	12	28	22	10	11	13
4e	16	10	11	20		14	15		25
		11	12	22	16		22	12	11
8DLK2W	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
97EXFR	Yfiler™								
4e									
APPAM9	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
B87XA9	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
BYBTF8	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
CBJVJG	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
CFXFGP	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

TABLE 2

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

Item 4e - YSTR Results

Item	col1	col2	col3	col4	col5	col6	col7	col8	col9
CKAEYA Yfiler™									
	NA	14	14,14	12	28	22	10	11	13
4e	16	10	11	20	NA	14	15	NA	NA
	NA	NA	NA	NA	NA	NA	22	NA	11
CT42XF Yfiler™ Plus									
	36,37	14	14,14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
D74MQB Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
D7NLN9 Yfiler™									
	NA	14	14,14	12	28	22	10	11	13
4e	16	10	11	20	NA	14	15	NA	NA
	NA	NA	NA	NA	NA	NA	22	NA	11
D8WKYG Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
DNJ23D Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
DV3WUN Yfiler™ Plus									
	36,37	14	14,14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
DWD7VE Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
EBAVBC Yfiler™									
4e									
EEVWLK Yfiler™									
		14	14	12	28	22	10	11	13
4e	16	10	11	20		14	15		
							22		11
EF9YGD Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
EJNPL8 Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

TABLE 2

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

Item 4e - YSTR Results

Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
F2Z3NH — Yfiler™									
		14	14	12	28	22	10	11	13
4e	16	10	11	20		14	15		
							22		11
FRZV7H — PowerPlex® Y 23									
		14	14	12	28	22	10	11	13
4e	16	10	11	20		14	15		25
	11	12	22	16			22	12	11
G22U6G — Yfiler™									
		14	14	12	28	22	10	11	13
4e	16	10	11	20		14	15		
							22		11
G6FKAC — PowerPlex® Y 23									
		14	14	12	28	22	10	11	13
4e	16	10	11	20		14	15		25
	11	12	22	16			22	12	11
G6KX2E — PowerPlex® Y 23									
		14	14	12	28	22	10	11	13
4e	16	10	11	20		14	15		25
	11	12	22	16			22	12	11
GF3J33 — Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
GF68NM — Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
GQX84R — Yfiler™ Plus									
	36,37	14	14,14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
H3BPDA — Yfiler™									
		14	14	12	28	22	10	11	13
4e	16	10	11	20		14	15		
							22		11
HABUY6 — Yfiler™									
	N/A	14	14,14	12	28	22	10	11	13
4e	16	10	11	20	N/A	14	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
HTJU7J — Yfiler™ Plus									
4e									
J6BRPA — Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

TABLE 2

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

Item 4e - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
JPH8U8 — Yfiler™									
4e									
JR67DQ — PowerPlex® Y 23									
	--	14	14	12	28	22	10	11	13
4e	16	10	11	20	--	14	15	--	25
	--	11	12	22	16	--	22	12	11
K4CWMH — PowerPlex® Y 23									
		14	14,14	12	28	22	10	11	13
4e	16	10	11	20		14	15		25
		11	12	22	16		22	12	11
K69JVF — Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
KGK3BQ — Yfiler™ Plus									
4e									
KUCAQM — PowerPlex® Y 23									
		14	14,14	12	28	22	10	11	13
4e	16	10	11	20		14	15		25
		11	12	22	16		22	12	11
LAEPTX — Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
LGYQ9B — Yfiler™									
4e									
LZN323 — Yfiler™									
	N/A	14	14,14	12	28	22	10	11	13
4e	16	10	11	20	N/A	14	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
M89HA7 — Yfiler™									
4e									
MDR3H8 — Yfiler™									
		14	14	12	28	22	10	11	13
4e	16	10	11	20		14	15		
							22		11
MKUCLE — Yfiler™ Plus									
	36,37	14	14,14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

TABLE 2

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

Item 4e - YSTR Results

MYECF6 — Yfiler™

4e									

N7N2PW — Yfiler™

4e									
	N/A	14	14,14	12	28	22	10	11	13
	16	10	11	20	N/A	14	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11

NHGYJ3 — PowerPlex® Y 23

4e									
		14	14,14	12	28	22	10	11	13
	16	10	11	20		14	15		25
	11	12	22	16		22	12		11

NK7VY2 — Yfiler™ Plus

4e									
	36,37	14	14	12	28	22	10	11	13
	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

NPYX32 — Yfiler™ Plus

4e									
	36,37	14	14	12	28	22	10	11	13
	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

NWZCN3 — Yfiler™

4e									

NYMXE6 — Yfiler™ Plus

4e									
	36,37	14	14	12	28	22	10	11	13
	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

P2P9RJ — Yfiler™ Plus

4e									
	36,37	14	14	12	28	22	10	11	13
	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

PRPTCA — Yfiler™

4e									
		14	14	12	28	22	10	11	13
	16	10	11	20		14	15		
						22			11

Q4AU88 — Yfiler™

4e									
		14	14	12	28	22	10	11	13
	16	10	11	20		14	15		
						22			11

Q736E9 — PowerPlex® Y 23

4e									
		14	14	12	N.D.	22	10	11	13
	16	10	11	20		14	15		25
	11	12	22	16		22	12		11

Q7YJMY — Yfiler™

4e									
		14	14,14	12	28	22	10	11	13
	16	10	11	20		14	15		
						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 4e - YSTR Results

Q98W62	Yfiler™								
4e									

QAZUET	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

R24E6E	Yfiler™ Plus								
	36,37	14	14,14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

RGEBQH	PowerPlex® Y								
	-	-	-	-	-	-	-	-	-
4e	-	-	-	-		-	-		-
	-	-	-	-			-	-	-

RRDQBX	Yfiler™								
4e									

RU6PLP	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

TF643Z	Yfiler™								
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4e	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

TFZT3M	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

TW7ZBX	Yfiler™ Plus								
4e									

UCXC3Y	Yfiler™								
4e									

UQUQ3R	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

VXAPCX	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

TABLE 2

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

Item 4e - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
VYNWWT Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
W6M3QM Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
WCQPW6 Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
WKK6CZ PowerPlex® Y 23									
		14	14	12	28	22	10	11	13
4e	16	10	11	20		14	15		25
		11	12	22	16		22	12	11
WVZYMU Yfiler™									
4e									
XACZRH Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
XAGATV Yfiler™									
4e									
XPT8ZW Yfiler™									
		14	14	12	28	22	10	11	13
4e	16	10	11	20		14	15		
							22		11
YKQE9Q Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
YKRJWU Yfiler™									
		14	14	12	28	22	10	11	13
4e	16	10	11	20		14	15		
							22		11
YU2D6M PowerPlex® Y 23									
		14	14	12	28	22	10	11	13
4e	16	10	11	20		14	15		25
		11	12	22	16		22	12	11
Z8KHPN Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	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 4e - YSTR Results

ZAAR2B	Yfiler™ Plus							
	36,37	14	14,14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

ZMBVBQ	PowerPlex® Y 23							
4e									

ZMZG32	Yfiler™ Plus							
4e									

ZR8CEP	Yfiler™ Plus							
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

ZZZKYF	Yfiler™ Plus							
	36,37	14	14	12	28	22	10	11	13
4e	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

TABLE 2

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

Item 4sp - YSTR Results

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
27MMNX	PowerPlex® Y 23								
		14	NR	12	28	22	10	11	13
4sp	16	10	11	20		14	15		25
		11	12	22	16		22	12	11
2PKPMM	Yfiler™								
	NA	14	14,14	12	28	22	10	11	13
4sp	16	10	11	20	NA	14	15	NA	NA
	NA	NA	NA	NA	NA	NA	22	NA	11
2R422H	Yfiler™								
	N/A	14	14,14	12	28	22	10	11	13
4sp	16	10	11	20	N/A	14	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
368REB	Yfiler™ Plus								
	36,37	14	14,14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
3A3EEQ	Yfiler™								
		14	14,14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
3ERXAT	Yfiler™								
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
3F7HZH	Yfiler™								
	NA	14	14,14	12	28	22	10	11	13
4sp	16	10	11	20	NA	14	15	NA	NA
	NA	NA	NA	NA	NA	NA	22	NA	11
3GEKZV	Yfiler™								
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
3TDDDT	PowerPlex® Y 23								
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		25
		11	12	22	16		22	12	11
3TGQ6V	PowerPlex® Y 23								
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		25
		11	12	22	16		22	12	11
48R2YV	Yfiler™								
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
4FK9KM	Yfiler™								
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11

TABLE 2

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

Item 4sp - YSTR Results

WebCode / Item	Amplification Kit								
4HAF9P	Yfiler™								
		14	14,14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
63T37H	Yfiler™								
	N/A	14	14,14	12	28	22	10	11	13
4sp	16	10	11	20	N/A	14	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
6HKM2K	PowerPlex® Y 23								
		14	14,14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		25
		11	12	22	16		22	12	11
6XGYEV	Yfiler™								
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
7QWB3P	PowerPlex® Y 23								
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		25
		11	12	22	16		22	12	11
8DLK2W	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
97EXFR	Yfiler™								
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
APPAM9	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
B87XA9	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
BYBTF8	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
CBJVJG	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
CFXFGP	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

TABLE 2

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

Item 4sp - YSTR Results

Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
CKAEYA — Yfiler™									
	NA	14	14,14	12	28	22	10	11	13
4sp	16	10	11	20	NA	14	15	NA	NA
	NA	NA	NA	NA	NA	NA	22	NA	11
CT42XF — Yfiler™ Plus									
	36,37	14	14,14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
D74MQB — Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
D7NLN9 — Yfiler™									
	NA	14	14,14	12	28	22	10	11	13
4sp	16	10	11	20	NA	14	15	NA	NA
	NA	NA	NA	NA	NA	NA	22	NA	11
D8WKYG — Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
DNJ23D — Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
DV3WUN — Yfiler™ Plus									
	36,37	14	14,14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
DWD7VE — Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
EBAVBC — Yfiler™									
		14	14,14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
EEVWLK — Yfiler™									
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
EF9YGD — Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
EJNPL8 — Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

TABLE 2

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

Item 4sp - YSTR Results

Item									
F2Z3NH	Yfiler™								
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
FRZV7H	PowerPlex® Y 23								
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		25
		11	12	22	16		22	12	11
G22U6G	Yfiler™								
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
G6FKAC	PowerPlex® Y 23								
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		25
		11	12	22	16		22	12	11
G6KX2E	PowerPlex® Y 23								
		14	14	12	28	22	10	11	13
4sp	ND	10	11	20		14	15		25
		11	12	22	16		22	12	11
GF3J33	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
GF68NM	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
GQX84R	Yfiler™ Plus								
	36,37	14	14,14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
H3BPDA	Yfiler™								
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
HABUY6	Yfiler™								
	N/A	14	14,14	12	28	22	10	11	13
4sp	16	10	11	20	N/A	14	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
HTJU7J	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
J6BRPA	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

TABLE 2

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

Item 4sp - YSTR Results

WebCode / Item	Amplification Kit	DYF387S1 · DYS437 · DYS518	DYS19 · DYS438 · DYS533	DYS385 · DYS439 · DYS549	DYS389-I · DYS448 · DYS570	DYS389-II · DYS449 · DYS576	DYS390 · DYS456 · DYS627	DYS391 · DYS458 · DYS635	DYS392 · DYS460 · DYS643	DYS393 · DYS481 · Y GATA H4
JPH8U8	Yfiler™		14	14,14	12	28	22	10	11	13
4sp		16	10	11	20		14	15		
								22		11
JR67DQ	PowerPlex® Y 23	--	14	14	12	28	22	10	11	13
4sp		16	10	11	20	--	14	15	--	25
		--	11	12	22	16	--	22	12	11
K4CWMH	PowerPlex® Y 23									
4sp										
K69JVF	Yfiler™ Plus	36,37	14	14	12	28	22	10	11	13
4sp		16	10	11	20	27	14	15	10	25
		40	11		22	16	19	22		11
KGK3BQ	Yfiler™ Plus	36,37	14	14,14	12	28	22	10	11	13
4sp		16	10	11	20	27	14	15	10	25
		40	11		22	16	19	22		11
KUCAQM	PowerPlex® Y 23		14	14,14	12	28	22	10	11	13
4sp		16	10	11	20		14	15		25
			11	12	22	16		22	12	11
LAEPTX	Yfiler™ Plus	36,37	14	14	12	28	22	10	11	13
4sp		16	10	11	20	27	14	15	10	25
		40	11		22	16	19	22		11
LGYQ9B	Yfiler™		14	14	12	28	22	10	11	13
4sp		16	10	11	20		14	15		
								22		11
LZN323	Yfiler™	N/A	14	14,14	22	28	22	10	11	13
4sp		16	10	11	20	N/A	14	15	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
M89HA7	Yfiler™		14	14,14	12	28	22	10	11	13
4sp		16	10	11	20		14	15		
								22		11
MDR3H8	Yfiler™		14	14	12	28	22	10	11	13
4sp		16	10	11	20		14	15		
								22		11
MKUCLE	Yfiler™ Plus	36,37	14	14,14	12	28	22	10	11	13
4sp		16	10	11	20	27	14	15	10	25
		40	11		22	16	19	22		11

TABLE 2

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

Item 4sp - YSTR Results

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
MYECF6 — Yfiler™									
		14	14,14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
N7N2PW — Yfiler™									
	N/A	14	14,14	12	28	22	10	11	13
4sp	16	10	11	20	N/A	14	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
NHGYJ3 — PowerPlex® Y 23									
		14	14,14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		25
	11	12	22	16			22	12	11
NK7VY2 — Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
NPYX32 — Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
NWZCN3 — Yfiler™									
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
NYMXE6 — Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
P2P9RJ — Yfiler™ Plus									
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
PRPTCA — Yfiler™									
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
Q4AU88 — Yfiler™									
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
Q736E9 — PowerPlex® Y 23									
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		25
	11	12	INC.	16			22	12	11
Q7YJMY — Yfiler™									
		14	14,14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11

TABLE 2

WebCode / 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

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
Q98W62 — Yfiler™		14	14,14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
QAZUET — Yfiler™ Plus	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
R24E6E — Yfiler™ Plus	36,37	14	14,14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
RGEBQH — PowerPlex® Y		14	14,14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		25
		11	12	22	16		22	12	11
RRDQBX — Yfiler™		14	14,14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
RU6PLP — Yfiler™ Plus	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
TF643Z — Yfiler™	N/A	14	14,14	12	28	22	10	11	13
4sp	16	10	11	20	N/A	14	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A	11
TFZT3M — Yfiler™ Plus	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
TW7ZBX — Yfiler™ Plus	36,37	14	14,14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		[21],22	16	19	22		11
UCXC3Y — Yfiler™		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
UQUQ3R — Yfiler™ Plus	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
VXAPCX — Yfiler™ Plus	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

TABLE 2

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

Item 4sp - YSTR Results

Item									
VYNWWT	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
W6M3QM	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
WCQPW6	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
WKK6CZ	PowerPlex® Y 23								
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		25
		11	12	22	16		22	12	11
WVZYMU	Yfiler™								
		14	14,14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
XACZRH	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
XAGATV	Yfiler™								
		14	14,14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
XPT8ZW	Yfiler™								
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
YKQE9Q	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
YKRJWU	Yfiler™								
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		
							22		11
YU2D6M	PowerPlex® Y 23								
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		25
		11	12	22	16		22	12	11
Z8KHPN	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

TABLE 2

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

Item 4sp - YSTR Results

ZAAR2B	Yfiler™ Plus								
	36,37	14	14,14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
ZMBVBQ	PowerPlex® Y 23								
		14	14	12	28	22	10	11	13
4sp	16	10	11	20		14	15		25
		11	12	22	16		22	12	11
ZMZG32	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
ZR8CEP	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11
ZZZKYF	Yfiler™ Plus								
	36,37	14	14	12	28	22	10	11	13
4sp	16	10	11	20	27	14	15	10	25
	40	11		22	16	19	22		11

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
27MMNX	No	Yes	Yes	No	4DBLAH	No	Yes	Yes	No
29CZ4U	No	Yes	Yes	No	4FK9KM	No	Yes	Yes	No
29DNRZ	No	Yes	Yes	No	4HAF9P	No	Yes	Yes	No
2A4YEM	No	Yes	Yes	No	63T37H	No	Yes	Yes	No
2PKPMM	No	Yes	Yes	No	6H3A7F	No	Yes	Yes	No
2R422H	No	Yes	Yes	No	6HKM2K	No	Yes	Yes	No
33KV8K	No	Yes	Yes	No	6KVF4Y	No	Yes	Yes	No
368REB	No	Yes	Yes	No	6QUM6E	No	Yes	Yes	No
3A3EEQ					6XGYEV	No	Yes	Yes	No
3DZXE4	No Interpretations Reported, DNA Analyzed for Database purposes only.				7CZW3W	No	Yes	Yes	No
3ERXAT	No	Yes	Yes	No	7QWB3P	No	Yes	Yes	No
3F7HZH	No	Yes	Yes	No	8DLK2W	No	Yes	Yes	No
3GEKZV	No	Yes	Yes	No	8GLAGP	No	Yes	Yes	No
3NXFR7	No	Yes	Yes	No	8LED42	No	Yes	Yes	No
3P9PUW	No	Yes	Yes	No	93XQVY	No	Yes	Yes	No
3TDDDT	No	Yes	Yes	No	97EXFR	No	Yes	Yes	No
3TGQ6V	No	Yes	Yes	No	9X67YP	No	Yes	Yes	No
3YY7PR	No	Yes	Yes	No	9X8GP8	No	Yes	Yes	No
3ZD8H2	No	Yes	Yes	No	9XMHQN	No	Yes	Yes	No
48R2YV	No	Yes	Yes	No	A3FGPX	No	Yes	Yes	No

TABLE 4

WebCode	Victim (Item 1) Item 3	Item 4	Suspect (Item 2) Item 3	Item 4	WebCode	Victim (Item 1) Item 3	Item 4	Suspect (Item 2) Item 3	Item 4
A4E66U	No Interpretations Reported, DNA Analyzed for Database purposes only.				CMWX3T	No	Yes	Yes	No
A7ZQVV	No	Yes	Yes	No	CT42XF	No	Yes	Yes	No
AAEJTF	No Interpretations Reported, DNA Analyzed for Database purposes only.				D74MQB	No	Yes	Yes	No
AHU399	No	Yes	Yes	No	D7NLN9	No	Yes	Yes	No
AMLE6Q	No	Yes	Yes	No	D8WKYG	No	Yes	Yes	No
APPAM9	No	Yes	Yes	No	D9PMQQ	No	Yes	Yes	No
AU88E6	No	Yes	Yes	No	DLZY4K	No	Yes	Yes	No
AZPVT8	No	Yes	Yes	No	DNJ23D	No	Yes	Yes	No
B6JYFJ	No	Yes	Yes	No	DV3WUN	No	Yes	Yes	No
B87XA9	No	Yes	Yes	No	DWD7VE	No	Yes	Yes	No
BBQK9M	No	Yes	Yes	No	DY6WUL	No	Yes	Yes	No
BDD6AK	No	Yes	Yes	No	EBAVBC	No	Yes	Yes	No
BNCXKW	No	Yes	Yes	No	EBXY8T	No	Yes	Yes	No
BU4X6K	No	Yes	Yes	No	EEVWLK	No	Yes	Yes	No
BYBTF8	No	Yes	Yes	No	EF9YGD	No	Yes	Yes	No
CA6DFB	No	Yes	Yes	No	EJNPL8	No	Yes	Yes	No
CAE4TN	No Interpretations Reported, DNA Analyzed for Database purposes only.				EPBAUU	No	Yes	Yes	No
CBJVJG	No	Yes	Yes	No	EQRN24	No	Yes	Yes	No
CDPVKV	No	Yes	Yes	No	F2Z3NH	No	Yes	Yes	No
CFXFGP	No	Yes	Yes	No	FGG4JM	No	Yes	Yes	No
CKAEYA	No	Yes	Yes	No	FKVVAF	No	Yes	Yes	No

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
FRZV7H	No	Yes	Yes	No	JTUUBC	No	Yes	Yes	No
FU4UEP	No	Yes	Yes	No	JV66C3	No	Yes	Yes	No
G22U6G	No	Yes	Yes	No	K4CWMH	No	Yes	Yes	No
G6FKAC	No	Yes	Yes	No	K69JVF	No	Yes	Yes	No
G6KX2E	No	Yes	Yes	No	KGK3BQ	No	Yes	Yes	No
GF3J33	No	Yes	Yes	No	KK3CUJ	No	Yes	Yes	No
GF68NM	No	Yes	Yes	No	KN3KZE	No	Yes	Yes	No
GH7C28	No	Yes	Yes	No	KUCAQM	No	Yes	Yes	No
GQX84R	No	Yes	No	No	KXQ3QK	No	Yes	Yes	No
GYAT2E	No	Yes	Yes	No	KZUYT2	No	Yes	Yes	No
H3BPDA	No	Yes	Yes	No	L7F8YC	No Interpretations Reported, DNA Analyzed for Database purposes only.			
HABUY6	No	Yes	Yes	No	LAEPTX	No	Yes	Yes	No
HQX8FH	No Interpretations Reported, DNA Analyzed for Database purposes only.				LDFNAH	No Interpretations Reported, DNA Analyzed for Database purposes only.			
HTJU7J	No	Yes	Yes	No	LF2DRA	No	Yes	Yes	No
HTYUVL	No	Yes	Yes	No	LGYQ9B	No	Yes	Yes	No
J6BRPA	No	Yes	Yes	No	LQ3NCE	No	Yes	Yes	No
JA38XG	No	Yes	Yes	No	LZN323	No	Yes	Yes	No
JLCWRC	No	Yes	Yes	No	M89HA7				
JMVFY4	No	Yes	Yes	No	M9EJWJ	No	Yes	Yes	No
JPH8U8	No	Yes	Yes	No	MDR3H8	No	Yes	Yes	No
JR67DQ	No	No	Yes	No	MKUCLE	No	Yes	Yes	No

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
MLQ999	No	Yes	Yes	No	Q4AU88	No	Yes	Yes	No
MREV2T	No	Yes	Yes	No	Q736E9	No	Yes	Yes	No
MVTEZ2	No	Yes	Yes	No	Q7YJMY	No	Yes	Yes	No
MYECF6	No Interp	No Interp	No Interp	No Interp	Q98W62	No	Yes	Yes	No
N7N2PW	No	Yes	Yes	No	QAZUET	No	Yes	Yes	No
NCGKWF	No	Yes	Yes	No	QCPUYH	No	Yes	Yes	No
NHGYJ3	No	Yes	Yes	No	QDHR8P	No	Yes	Yes	No
NK7VY2	No	Yes	Yes	No	QERG9V	No	Yes	Yes	No
NMWW34	No Interp	No Interp	No Interp	No Interp	QM9HK6	No	Yes	Yes	No
NPYX32	No	Yes	Yes	No	R24E6E	No	Yes	Yes	No
NRATQE	No	Yes	Yes	No	R3WLBR	No	Yes	Yes	No
NWZCN3	No	Yes	Yes	No	R4AE9F	No	Yes	Yes	No
NYMXE6	No	Yes	Yes	No	RGEBQH	No	Yes	Yes	No
NZNL3A	No	Yes	Yes	No	RJHQVK	No	Yes	Yes	No
P2P9RJ	No	Yes	Yes	No	RRDQBX	No	Yes	Yes	No
PFBJGA	No	Yes	Yes	No	RU6PLP	No	Yes	Yes	No
PHGHKB	No	Yes	Yes	No	RXNMDL	No	Yes	Yes	No
PRPTCA	No	Yes	Yes	No	T3UVXM	No	Yes	Yes	No
PUTQKH	No	Yes	Yes	No	T6H6AA	No Interp	No Interp	No Interp	No Interp
PUU66A	No	Yes	Yes	No	TDE6KV	No Interp	No Interp	No Interp	No Interp
PWFQVC	No	Yes	Yes	No	TF643Z	No	Yes	Yes	No

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
TFZT3M	No	Yes	Yes	No	YBQL7Q	No	Yes	Yes	No
TJFXLX	No	Yes	Yes	No	YKQE9Q	No	Yes	Yes	No
TW7ZBX	No	Yes	Yes	No	YKRJWU	No	Yes	Yes	No
UCXC3Y	No	Yes	Yes	No	YU2D6M	No	Yes	Yes	No
UQUQ3R	No	Yes	Yes	No	YUJ2B3	No	Yes	Yes	No
VXAPCX	No Interp	No Interp	Yes	No	Z8KHPN	No	Yes	Yes	No
VYNWWT	No	Yes	Yes	No	ZAAR2B	No	Yes	Yes	No
VZY9L6	No	Yes	Yes	No	ZCFR6B	No	Yes	Yes	No
W6B4VD	No	Yes	Yes	No	ZMBVBQ	No	Yes	Yes	No
W6M3QM	No	Yes	Yes	No	ZMZG32	No	Yes	Yes	No
WCQPW6	No	Yes	Yes	No	ZQ2H3Y	No	Yes	Yes	No
WKK6CZ	No	Yes	Yes	No	ZR8CEP	No	Yes	Yes	No
WRDWKA	No	Yes	Yes	No	ZW3WNZ	No	Yes	Yes	No
WVZYMU	No	Yes	Yes	No	ZXUAET	No	Yes	Yes	No
X3BK6W	No	Yes	Yes	No	ZYPHE3	No	Yes	Yes	No
XACZRH	No	Yes	Yes	No	ZZK6MY	No	Yes	Yes	No
XAGATV	No Interp	No Interp	No Interp	No Interp	ZZZKYF	No	Yes	Yes	No
XPT8ZW	No	Yes	Yes	No					
XZAK6Y	No	Yes	Yes	No					
Y86EPX	No	Yes	Yes	No					
YBN29P	No	Yes	Yes	No					

DNA Interpretation

Response Summary   **Participants reporting DNA results: 204**

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

	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4
Yes	0	188	189	0
No	189	1	1	190
Inc	0	0	0	0
No Interpretation	6	6	5	5
No Response	2	2	2	2

Participants analyzing DNA for database purposes only: 7

Additional Comments

TABLE 5

WebCode	Additional Comments
27MMNX	NR=No result. BST=Below Stochastic threshold. Items 1 and 2 processed with Qiagen extraction and Direct Amp procedure.
29DNRZ	Items 3 and 4 were interpreted using STRmix and potential elevated stutter would not have been called off.
2PKPMM	[ ] - indicates minor allele(s) and/or allele(s) between analytical and stochastic thresholds. NA - indicates not applicable.
2R422H	[ ] - indicates minor allele/s and alleles between analytical and stochastic thresholds
368REB	NR = No DNA Results
3A3EEQ	No comparisons performed
3DZXE4	Analyst is not competent in DNA extraction of unknown samples or in DNA profile comparisons, therefore Items 3 and 4 were not tested and no DNA interpretations were performed
3F7HZH	NA=not applicable
3GEKZV	Extraction: Item 1 and Item 2 were extracted using in situ method. Item 3 was extracted using Qiasymphony DNA Investigator Kit via Qiasymphony SP Platform. Item 4 was extracted using differential extraction method. Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Trio DNAQuantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using Applied Biosystems Globalfiler Express PCR Amplification Kit on Proflex PCR System. Item 3 and Item 4 were amplified using Applied Biosystems Globalfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Item 2, Item 3 and Item 4 were amplified using AmpFlSTR Y-Filer PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis was carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4. Electrophoresis was carried out on ABI 3500xL Genetic Analyzer for Item 2, Item 3 and Item 4 for Y-Filer analysis. Quality Control: Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results. NM: Non-male profile.
3TGQ6V	ND=no data
3ZD8H2	The inclusion of Victim (Item 1) as a contributor to the questioned stain of Item 4 is specifically for the Epithelial fraction. The Victim (Item 1) is excluded from the profile obtained on the Spermatic fraction of Item 4.
4HAF9P	NR = No Results
63T37H	N/A - Not Applicable. [ ] - indicates minor allele/s and alleles between analytical and stochastic thresholds.
6KVF4Y	high stutter left on in all question samples per protocol for STRmix analysis.
7CZW3W	Item 4 produced a major male DNA profile in the non-sperm/epithelial cell fraction, so new cuttings were taken and re-extracted to confirm the results. The re-extraction again produced a major male DNA profile in this fraction and the quantitation data supports these results. The mixture obtained is also suitable for mixture comparisons, with the exception of D3S1358 (apparent 15 allele being filtered out by GeneMapper stutter filter) and TH01 (only one minor type present and it is below our interpretation threshold). Based upon comparison to this mixture, the Victim cannot be excluded as being a contributor to Item 4.
7QWB3P	Human blood was confirmed on Items 3 and 4 using ABAcard HemaTrace test kit. Sperm cells were confirmed on Item 4 through microscopic examination. NR = no result, (i.e. no results obtained for locus DYS391 with female DNA sample)
8GLAGP	any elevated stutter obtianed from Items 3, 4e and 4sp were not removed because profiles were analyzed with STRmix

TABLE 5

WebCode	Additional Comments
9X8GP8	NR = No Result. NT = Not Tested.
AU88E6	NR = No DNA Results
CBJVJG	Several elevated/combination stutter peaks present in both fractions of the differential extraction (Item 4 e-fraction and Item 4 sp-fraction), which are normally left on for STRmix deconvolution, were removed from the CTS data sheets after upload to the CTS portal.
CFXFGP	NR = No Results. STRmix analysis was conducted on this test. Results reported are from Genemapper IDX analysis.
CKAEYA	[ ]- indicates minor allele/s and alleles between analytical and stochastic thresholds. NA- Not applicable.
D7NLN9	NA=Not applicable. []= indicates minor allele(s) and/or allele(s) between analytical and stochastic thresholds.
D8WKYG	NR= No Results. STRmix analysis was conducted on this test. Data reported is from analysis using Genemapper ID-X.
DLZY4K	Items 3 and 4 were extracted via differential separation, per laboratory protocol. Insufficient DNA was detected in the sperm fraction for item 3, so the report will reflect the non-sperm fraction (epi fraction) only for item 3. The sperm fraction was not processed past the quantification step for this item.
DNJ23D	All data reported out in this proficiency originate from analysis using GeneMapper ID-X. In addition, Item 4F was analyzed using STRmix software. NR = No Results.
DV3WUN	Possible alleles below the reportable threshold was noted for Exhibit (Item) 4AE. The stat for the minor donor in Exhibit 4AE used 18 of 21 loci.
DWD7VE	NR=no results. The data reported out in this test is from analysis using Genemapper ID-X. STRmix analysis was conducted on Item 4F.
DY6WUL	An additional sample was submitted from item 4 which was a sample of the blood/semen mix that had not been subjected to differential extraction. The results from this sample were interpreted for the file but have not been included on this form. It was found that victim and unknown male could both have contributed to the result which is not unexpected given the findings from the epithelial and seminal fractions from the same item.
EBAVBC	NR = No Result
EEVWLK	Extraction: Item 1 to Item 4 were extracted using the Chelex extraction method. Quantification: Item 1 to Item 4 were quantified using the Quantifiler Human DNA Quantification kit on the Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 system. Amplification: Item 1 to Item 4 were amplified using the Globalfiler 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 AmpFISTR Y-filer PCR Amplification Kit on the 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on the Applied Biosystems 3500xl Genetic Analyzer with Genemapper ID-X Software for Item 1 to Item 4 (Globalfiler). Electrophoresis for Y-Filer was carried out on the Applied Biosystems 3500xl with Genemapper ID-X Software for Item 2, Item 3 and Item 4. Quality Control: Reagent blank, positive control and negative control were carried out throughout the analysis and all gave intended results. NM = Non Male profile.
EF9YGD	STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X. NR = No Results.
EQRN24	YFiler analysis not required for interpretation.

TABLE 5

WebCode	Additional Comments
F2Z3NH	Extraction: Item 3 was extracted using Chelex Extraction while Item 4 was extracted using Chelex Differential Extraction. Quantification: Item 3 and Item 4 were quantified using the Quantifiler Human DNA quantitation kit and carried out by 7500 Real-Time PCR. Amplification: Item 1 and Item 2 were amplified using GlobalFiler Express kit on 9700 GeneAmp PCR System. Item 3 and Item 4 were amplified using GlobalFiler Kit on 9700 GeneAmp PCR System. Item 2, Item 3 and Item 4 were amplified using AMPFlSTR 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. *NM denotes non male profile.
FRZV7H	NR = no result
FU4UEP	Technical Review (Ownership Review) PT
G22U6G	1. Extraction: - Item 1 and Item 2 were extracted using in-situ method. - Bloodstains extraction on Item 3 was carried out using QIAsymphony DNA Investigator Kit via QIAsymphony SP. - Differential extraction of semen stains on Item 4 was carried out using Chelex extraction method. 2. Quantification: Item 3 and Item 4 were quantified using Quantifiler Trio on QuantStudio 5 RT-PCR. 3. Amplification on 9700 GeneAmp PCR System and Proflex PCR System (GlobalFiler Express): - Item 1 and Item 2 were amplified using GlobalFiler Express PCR amplification Kit. - Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification Kit. - Item 2, Item 3 and Item 4 were amplified using YFiler PCR Amplification Kit. 4. Electrophoresis were carried out on Genetic Analyzer 3500xL. 5. Quality Control; reagent blank, positive and negative control were carried out through analysis and all gave intended results.
G6KX2E	Human blood was confirmed on items 3 and 4. Testing for the presence of human blood was performed with the ABAcard HemaTrace test kit. This kit is known to cross-react with some species of the Mustelidae family and with higher primates. Sperm cells were confirmed on item 4 through microscopic examination. ND = No Data.
GF68NM	Elevated stutter not removed due to STRmix analysis.
GH7C28	ND = Not Detected
GQX84R	according with the genetic results is 72, 828, 230, 495, 575, 600, 000, 000, 000, 000, 000, 000, 000 more probably to explain them, if the suspect (item2) is the donator of the genetic material from item 3. victim´s DNA (Item 1) is included in the mix obtained from the epithelial fraction of item 4. according with the genetic results, suspect (item 2) is excluded to be the donator of the genetic material of the spermatic fraction from item 4. suspect´s genetic profile is excluded of being included into the mix of the epithelial fraction from item 4.
HABUY6	N/A: Not Applicable. [ ] - indicates minor allele/s and alleles between analytical and stochastic thresholds.
HTYUVL	In Item 3, Locus SE33: genotype: 17, 28.2 was detected. It was reported as inconclusive result (INC) because present a peak high ratio (pHR) of 28% not reportable according the policies of our laboratory.
J6BRPA	Data analyzed and reported using GeneMapper ID-X. STRmix used for probabilistic genotyping. NR = No Results.

TABLE 5

WebCode	Additional Comments
JMVFY4	Victim (Item 1) vs. DNA results from Item 3 & Item 4: -Many alleles of victim's genetic profile (Item 1) are discordant with the genetic profile obtained from Item 3. The DNA evidence demonstrates that victim's DNA is excluded as being the source of the blood stain found on Item 3 (suspect's shirt). -Many alleles of victim's genetic profile (Item 1) are discordant with the mixed DNA profile obtained from the sperm fraction of Item 4. All alleles of victim's genetic profile (Item 1) are included in the mixed DNA profile obtained from the epithelial fraction of Item 4. The DNA evidence demonstrates that victim's DNA is one of the contributor of the blood and semen stain collected from Item 4 (bottom bedsheet). Suspect (Item 2) vs. DNA results from Item 3 & Item 4: -All alleles of suspect's genetic profile are identical with alleles of the genetic profile obtained from Item 3. LR>1E+9 (Caucasian population data). The probability to obverse those DNA results is over 1 billion time grater if the suspect is the source of the blood stain collected from Item 3 (suspect's shirt) rather than if another person, unrelated with the suspect is the source of the blood stain found on Item 3. -Many alleles of suspect's genetic profile (Item 2) are discordant with the mixed DNA profile obtained from epithelial and sperm fractions of Item 4. The DNA evidence demonstrates that suspect's DNA is excluded as being the source of the blood and semen stain collected from Item 4 (bottom bedsheet).
JPH8U8	NR = No Results
JR67DQ	Item-3 is male DNA. The Suspect (Item-2) is the contributor to the questioned stain. Item-4: Differential extraction was performed. PPF/Y23 profiles are of a single-male DNA. Suspect (Item-2) is excluded as a contributor to the questioned stain. The profile alleles listed in the report were detected at peak intensities equal to or greater than the laboratory threshold levels.
JTUUBC	Item 4 (sp) had elevated stutter % (13%) in loci D16S539.
K69JVF	NR = no results. STRmix analysis conducted on this test. Data reported in this test is from analysis using GeneMapper ID-X.
KGK3BQ	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification.
KN3KZE	The presence of blood was confirmed on item 3. In my opinion, the DNA profile obtained can be attributed to the blood staining. A default statistic could be applied to this result. The presence of blood and semen was confirmed on item 4. In my opinion, the DNA profile obtained from the seminal fraction of item 4 can be attributed to the semen staining. In my opinion, the major DNA profile obtained from the cellular fraction can be attributed to the blood staining; the minor male profile is likely to relate to the semen staining. If statistical evaluation of the cellular fraction of item 4 was required, it may be necessary to use the 'LiRa' software. The unknown profile determined from item 4 (seminal fraction) would be suitable for permanent loading to the National DNA Database, if appropriate.
KXQ3QK	Technical Review (Ownership Review) PT
LF2DRA	For the epithelial portion of Item 4 the minor DNA profile has a single peak below the analytical threshold at locus D19S433 and thus is missing a single allele in the allele table.
LZN323	[ ] - Indicates minor allele/s and alleles between analytical and stochastic thresholds. N/A - Not Applicable.
M89HA7	No comparisons performed
MYECF6	No comparisons performed. NR = no result.
N7N2PW	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds
NMWW34	Test participant functions as Y-screen technician and does not perform interpretations.
NRATQE	Elevated stutter was in the non-sperm cell fraction and the sperm cell fraction of item 4 and was left in because of STRmix analysis.
NYMXE6	The data reported out in this test is from analysis using GeneMapper ID-X. STRmix analysis was conducted on this test. *NR=No Results.

TABLE 5

WebCode	Additional Comments
PRPTCA	Extraction: Prepfiler Express extraction method was used to extract DNA from Item 1, Item 2 and Item 3. Chelex extraction method was used to extract DNA from Item 4. Quantification: DNA quantitation for Item 1, Item 2, Item 3 and Item 4 were carried out using the Quantifiler Human DNA Quantification kit with Applied Biosystem QuantStudio 5 Polymerase Chain Reaction (PCR) system. Amplification: Amplification of STR (Short Tandem Repeat) genetic loci for Item 1, Item 2, Item 3 and Item 4 were carried out using Globalfiler PCR Amplification Kit. Amplification of Y-STR (Y-Short Tandem Repeat) genetic loci for Item 2, Item 3 and Item 4 were carried out using the AmpFlSTR Y-filer PCR Amplification kit. Electrophoresis: Capillary electrophoresis for Item 1,2,3 and 4 were carried out using the Applied Biosystems 3500xl Genetic Analyzer with GeneMapper ID-X Software. Quality Control: Reagent blank, positive control and negative control were carried out throughout the analysis and all gave intended results.
PUU66A	Elevated stutter was not removed from questioned item profiles (Items 3 and 4) due to STRmix analysis.
Q4AU88	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 Applied Biosystems™ GlobalFiler™ Express PCR Amplification Kit on the Applied Biosystems™ GeneAmp™ PCR System 9700. By using the in-situ method, Item 2 was also amplified using the Applied Biosystems™ AmpFLSTR™ YFiler™ PCR Amplification Kit on the Applied Biosystems™ GeneAmp™ PCR System 9700. Item 3 and Item 4 were amplified using the Applied Biosystems™ GlobalFiler™ and AmpFLSTR™ 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. Remark: 'NM' denotes non-male DNA profile.
Q736E9	N.D. = NO DATA. INC. = INCONCLUSIVE.
Q7YJMY	NR=No results.
Q98W62	NR = No Result
QCPUYH	Note: elevated stutter left in on question samples due to statistics being calculated with STRmix.
RJHQVK	NR= no DNA result
RRDQBX	NR = no results
T6H6AA	The scientist who was assigned this test is qualified in extraction through CE but not data interpretation. Items 3 and 4 were analyzed by a second scientist to verify that the correct results were obtained. Known samples were not profiled and no comparisons were reported.
TDE6KV	Not interpreted; qualified through capillary electrophoresis and not data analysis.
TF643Z	NR=No Result. N/A=Not Applicable.
TW7ZBX	Results are entered for GlobalFiler loci as casework reporting is based on GlobalFiler loci. Powerplex Fusion 6C is only used for allele verification. Item 1 at locus D7S820 - There is a minor allele 13 which is inconsistent with being a contributor to the overall profile. The peak height ratio of 13 to 14 is 9.80%, exceeding the Laboratory's stutter threshold of 8.32% for this locus. The allele 13 is likely to be an elevated stutter. Item 4 (spermic fraction) at locus DYS570 - There is a minor allele 21 which is inconsistent with being a contributor to the overall profile. The peak height ratio of 21 to 22 is 20.22%, exceeding the Laboratory's stutter threshold of 15.65% for this locus. The allele 21 is likely to be an elevated stutter.
VXAPCX	Only YSTR analysis was conducted for this test, therefore, Female Victim (item 1) was not run and no comparisons/interpretations were made to that sample.
VZY9L6	DNA result from Item 4 epithelial fraction indicates DNA from two people in roughly 2:1 ratio. Victim could be the stronger contributor of DNA and Unknown from seminal fraction could be lesser contributor. Result could have been deconvoluted conditioning on victim, but comparisons were carried out.

TABLE 5

WebCode	Additional Comments
WCQPW6	NR = no results. STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X.
WKK6CZ	NR = no result
WVZYMU	NR=No results
XAGATV	No comparisons performed.
XPT8ZW	Extraction: - Item 1 and Item 2 were extracted using in-situ method. - Item 3 was extracted using DNA Investigator kit on QIAsymphony platform. - Item 4 was extracted through differential extraction method using chelex method. Quantification: - Item 3 and Item 4 were quantitated using Quantifiler Trio DNA Quantification kit on 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 GeneAmp PCR System 9700. - Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Y-Filer PCR Amplification kit on GeneAmp PCR System 9700. Electrophoresis: - Item 1 and Item 2 (GlobalFiler Express) while Item 3 and Item 4 (GlobalFiler) were run on ABI 3500xL Genetic Analyzer. - Item 2, Item 3 and Item 4 were run on ABI 3500xL Genetic Analyzer for Y-STR. Quality Control: - Reagent blank, positive control and negative control were conducted throughout the analysis and given satisfactory results. NM represent Non-male profile.
YBQL7Q	ND = Not Detected
YKRJWU	Extraction: Item 1 and Item 2 were extracted using in situ method. Item 3 was extracted using Qiasymphony DNA Investigator Kit via Qiasymphony SP Platform. Item 4 was extracted using differential extraction method. Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Trio DNAQuantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using Applied Biosystems Globalfiler Express PCR Amplification Kit on Proflex PCR System. Item 3 and Item 4 were amplified using Applied Biosystems Globalfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Item 2, Item 3 and Item 4 were amplified using AmpFlSTR Y-Filer PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis was 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 for Y-Filer. Quality Control: Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results. NM: Non-male profile.
ZMZG32	possible elevated stutter left in Items 4AF and 4AM because of STRmix analysis

-End of Report-
(Appendix may follow)

Test No. 22-5806: DNA-Mixture

DATA MUST BE SUBMITTED BY **Dec. 19, 2022, 11:59 p.m. EST** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A   WebCode: EN7Q3D

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 female has filed a report with a local police station disclosing that she was sexually assaulted this morning by her boyfriend, the suspect, in her apartment. The victim told police that last night her boyfriend came home drunk and began fighting with her, accusing her of cheating. The boyfriend shoved her into a wall, causing a wound to her head. Eventually, the physical assault stopped and the couple went to bed. This morning, the boyfriend again accused her of cheating. He hit her in the face and forced her to have sex with him in her bed. In an attempt to get away, the victim physically assaulted the boyfriend, causing him to bleed. While the victim was reporting the incident, police noted several injuries on her face and arms. The suspect was apprehended later that day. Police are submitting a stain from the shirt the suspect was wearing (Item 3) and a stain from the bottom bedsheet (Item 4) on the victim's bed. Screening tests have been performed on both samples with the following results: Item 3 (suspect's shirt) is positive for blood, and Item 4 (bottom bedsheet) is positive for blood and semen. Also collected were known blood samples from the female victim (Item 1) and the male suspect (Item 2).

Items Submitted (Sample Pack S6):

Item 1: Known blood from the female victim
Item 2: Known blood from the male suspect
Item 3: Questioned blood stain from suspect's shirt (off-white)
Item 4: Questioned blood and semen stain from bottom bedsheet (blue)

Part I: DNA Results for Known Item 1

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

<u>STR Amplification Kit(s) Used:</u> Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

☐ Identifiler®   ☐ GlobalFiler™   ☐ Investigator® 24plex

☐ PowerPlex®   Other

Report the Probabilistic Genotyping Software Used (if applicable):

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

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

<u>YSTR Amplification Kit(s) Used:</u> Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

☐ YFiler™   ☐ PowerPlex® Y   Other

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

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

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

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

<u>STR Amplification Kit(s) Used:</u>   Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

☐ Identifiler®   ☐ GlobalFiler™   ☐ Investigator® 24plex

☐ PowerPlex®   Other

Report the Probabilistic Genotyping Software Used (if applicable):

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

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2						
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
2						
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
2						
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
2						
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
2						

<u>YSTR Amplification Kit(s) Used:</u>   Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

☐ YFiler™   ☐ PowerPlex® Y   Other

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

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

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

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

<u>STR Amplification Kit(s) Used:</u>   Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

☐ Identifiler®   ☐ GlobalFiler™   ☐ Investigator® 24plex

☐ PowerPlex®   Other

Report the Probabilistic Genotyping Software Used (if applicable):

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

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

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

<u>YSTR Amplification Kit(s) Used:</u>   Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

☐ YFiler™   ☐ PowerPlex® Y   Other

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

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

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

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

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

<u>STR Amplification Kit(s) Used:</u>   Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

☐ Identifiler® [   ]   ☐ GlobalFiler™ [   ]   ☐ Investigator® 24plex [   ]

☐ PowerPlex® [   ]   Other [   ]

Report the Probabilistic Genotyping Software Used (if applicable): [   ]

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

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

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

<u>YSTR Amplification Kit(s) Used:</u>   Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

☐ YFiler™ [   ]   ☐ PowerPlex® Y [   ]   Other [   ]

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

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

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

Part I (continued): DNA Analysis - Additional DNA

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

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

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

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

Part II: DNA INTERPRETATION

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

	Victim (Item 1)			Suspect (Item 2)	
	Item 3	Item 4		Item 3	Item 4
Yes	○	○	Yes	○	○
No	○	○	No	○	○
Inconclusive	○	○	Inconclusive	○	○
No Interpretation	○	○	No Interpretation	○	○

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)