Collaborative Testing Services, Inc

FORENSIC TESTING PROGRAM

DNA-Semen Test No. 21-5802
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 209 participants and are compiled into the following tables:

Manufacturer's Information

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

SAMPLE PREPARATION: The stains in Items 1, 2, and 3 were prepared using human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. The stain in Item 4 was a mixture prepared from human whole blood and semen. The semen sample was first thawed and mixed 1:1 with TAE buffer, then mixed 1:1 with the blood. Items 1 (75 μl) and 3 (50 μl) were created using blood from the same female donor. Item 2 (75 μl) was created using blood collected from a male donor. Item 4 (50 μl) was created using a 1:1 mixture of blood from the female donor found in Item 1 and semen from the male donor found in Item 2. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on March 1, 2021 following receipt of predistribution results.

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

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

Manufacturer's Information, continued

Amelogenin and STR Results

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

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	
1	15,15.3	22,23	10,14	17,18	9,11	*
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	NM	NM	NM	NM	
2	16,17.3	20,21	14,14	14,14	12,12	*
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19	2	
3	15,15.3	22,23	10,14	17,18	9,11	*
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	NM	NM	NM	NM	
4-Blood	15,15.3	22,23	10,14	17,18	9,11	*
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	NM	NM	NM	NM	
4-Semen	16,17.3	20,21	14,14	14,14	12,12	*
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19	2	

YSTR Results

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

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
2	40,40	15	14,17	13	29	23	10	11	12
	15	9	12	21	32	16	16	10	22
	37	11	12	17	19	21	21	11	11
4-Semen	40,40	15	14,17	13	29	23	10	11	12
	15	9	12	21	32	16	16	10	22
	37	11	12	17	19	21	21	11	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 21-5802 DNA-Semen test is part of the DNA Sample Specific Series, where participants are advised of the body fluid(s) that made up the questioned stains. The test is designed to allow participants to assess their proficiency in the analysis of dried stains. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Items 1 and 3 were created using blood from the same female donor. Item 2 was created using blood collected from a male donor. Item 4 was created using a mixture of blood from the female donor used in Item 1 and semen from the male donor used in Item 2. (See Manufacturer's Information for preparation details)

Of the 209 participants that returned results, 171 reported DNA interpretations. Thirty participants stated that the samples were only analyzed for database purposes and eight did not respond.

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

For the Item 4 stain, all participants that reported interpretations included the suspect (Item 2) and all but one also included the victim (Item 1) as possible contributors. This one participant excluded the victim (Item 1) as a possible contributor to the stain.

A total of 29 participants reported the use of Probabilistic Genotyping (PG) software on either solely the questioned items or all four items. Two participants reported additional alleles at a single locus, one of which reported in their additional comments that stutter may be included in the DNA results.

For STR results, four participants reported allelic responses that differed from the consensus/predistribution results. The breakdown of inconsistencies is as follows: two participants reported additional alleles and two were missing alleles. Based on the interpretations above, these inconsistencies did not appear to affect these participants' conclusions.

For Y-STR results, one participant reported allelic responses that differed from the consensus/predistribution results. This participant reported a male profile for Item 3, although in the STR section they reported a female profile for this same item.

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

227TCE — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No results	No results	No results		

23E44C — GlobalFiler™ Express — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

2CP6PD — GlobalFiler™ Express — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

2EVQFX — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

2F39C9 — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

2FQB84 — PowerPlex® Fusion — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15		7,9	9,11
16,17	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

2HV2BX — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

2JPM34 — PowerPlex® Fusion (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15		7,9	9,11
16,17	NR				

2UJ4R6 — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	NR	NR	NR		

2WBZGY — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

2YHGDA — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

36LL38 — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

37G7UD — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

TABLE 1

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

Item 1 - STR Results

39YLXD — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	NR	NR	NR		

3CL3FY — GlobalFiler™ (Item 1)

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

3P9ABE — PowerPlex® Fusion (Item 1)

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15		7,9	9,11
16,17	NR				

3QFPJ7 — GlobalFiler™ (Item 1)

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

3RWNYN — PowerPlex® Fusion 6C (Item 1)

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	ND	ND	ND		

3VBJG8 — PowerPlex® Fusion 6C (Item 1)

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

3W769C — Investigator® 24plex (Item 1)

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	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

3YCA3Z GlobalFiler™ (STRmix) — Item 1

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

48KECW GlobalFiler™ — Item 1

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	Not Detected			Not Detected	

4ABKU9 PowerPlex® Fusion 6C — Item 1

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

4BLKQ3 PowerPlex® Fusion 6C — Item 1

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	NR	NR	NR		

4C3J97 PowerPlex® Fusion 6C — Item 1

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Results	No Results	No Results		

4JD36B PowerPlex® Fusion 6C, GlobalFiler™ — Item 1

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	N.D.			N.D.	

4L7TEV GlobalFiler™ — Item 1

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

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						
4MYKMV	Investigator® 24plex GO!					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					
4NU6E2	PowerPlex® Fusion					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15		7,9	9,11
	16,17	NR				
69X9RW	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	--			--	
6A9C3Z	PowerPlex® Fusion					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15		7,9	9,11
	16,17					
6D449C	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					
6QTZCV	PowerPlex® Fusion					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15		7,9	9,11
	16,17					
6R8EWX	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

TABLE 1

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

Item 1 - STR Results

6TKYQT	Investigator® 24plex GO!					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					
7AZTT3	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					
7EUMP4	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	No Results			No Results	
7HWCBW	GlobalFiler™ (STRmix)					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					
7JBUD3	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	Not Tested
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	No Results	No Results	No Results	Not Tested	
7KHAK9	PowerPlex® Fusion 6C, GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					
7MNU99	Investigator® 24plex					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

TABLE 1

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

Item 1 - STR Results

7NGKG9	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

83W7D8	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	N.R.			N.R.	

899UE4	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

8C88Y9	PowerPlex® Fusion 6C, GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	N.D.			N.D.	

8G26NY	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	Not Tested
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	No Results	No Results	No Results	Not Tested	

8LT9G3	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	No Results	No Results	No Results		

8M2LWJ	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

TABLE 1

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

Item 1 - STR Results

8NYU64	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					
8WUYY4	GlobalFiler™ (TrueAllele)					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					
8YKXD3	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	No Results	No Results	No Results		
9268Z9	PowerPlex® Fusion					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26	10,12	7,15		7,9	9,11
	16,17	NR				
9GULVT	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					
9KVKDX	PowerPlex® Fusion 6c					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	NR	NR	NR		
9MMG3R	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	NR			NR	

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TABLE 1

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

9QXRT2 — PowerPlex® Fusion 6C — Item 1

D1/D7/D18/FGA/vWA	D2S1338/D8/D19/Penta D/DYS391	D2S441/D10/D21/Penta E/DYS570	D3/D12/D22/SE33/DYS576	D5/D13/Amel/TH01/Y Indel	D6/D16/CSF/TPOX
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

9W9KAR — Investigator® 24plex GO! — Item 1

D1/D7/D18/FGA/vWA	D2S1338/D8/D19/Penta D/DYS391	D2S441/D10/D21/Penta E/DYS570	D3/D12/D22/SE33/DYS576	D5/D13/Amel/TH01/Y Indel	D6/D16/CSF/TPOX
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

9XGXP8 — PowerPlex® Fusion 6C — Item 1

D1/D7/D18/FGA/vWA	D2S1338/D8/D19/Penta D/DYS391	D2S441/D10/D21/Penta E/DYS570	D3/D12/D22/SE33/DYS576	D5/D13/Amel/TH01/Y Indel	D6/D16/CSF/TPOX
15,15.3	22,23	10,14	17,18	9,11	Not Tested
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Results	No Results	No Results	Not Tested	

A37UR4 — PowerPlex® Fusion — Item 1

D1/D7/D18/FGA/vWA	D2S1338/D8/D19/Penta D/DYS391	D2S441/D10/D21/Penta E/DYS570	D3/D12/D22/SE33/DYS576	D5/D13/Amel/TH01/Y Indel	D6/D16/CSF/TPOX
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15		7,9	9,11
16,17	NR				

A9E3BT — PowerPlex® Fusion 6C — Item 1

D1/D7/D18/FGA/vWA	D2S1338/D8/D19/Penta D/DYS391	D2S441/D10/D21/Penta E/DYS570	D3/D12/D22/SE33/DYS576	D5/D13/Amel/TH01/Y Indel	D6/D16/CSF/TPOX
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

ACWFX2 — PowerPlex® Fusion — Item 1

D1/D7/D18/FGA/vWA	D2S1338/D8/D19/Penta D/DYS391	D2S441/D10/D21/Penta E/DYS570	D3/D12/D22/SE33/DYS576	D5/D13/Amel/TH01/Y Indel	D6/D16/CSF/TPOX
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15		7,9	9,11
16,17	NR				

AEKRW8 — PowerPlex® Fusion — Item 1

D1/D7/D18/FGA/vWA	D2S1338/D8/D19/Penta D/DYS391	D2S441/D10/D21/Penta E/DYS570	D3/D12/D22/SE33/DYS576	D5/D13/Amel/TH01/Y Indel	D6/D16/CSF/TPOX
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15		7,9	9,11
16,17	NR				

TABLE 1

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

Item 1 - STR Results

BBH9AY — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

BD8EUW — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

BK4ARU — PowerPlex® Fusion — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15		7,9	9,11
16,17	NR				

BLF9M4 — PowerPlex® Fusion 5C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15		7,9	9,11
16,17					

BP3Q6N — Investigator® 24plex GO! — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

BQB3LQ — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	--			--	

BQUNEF — Identifiler® Plus — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	22,23		17,18	9,11	
9,10	12,13			12,13	10,13
15,16	12,13	28,31.2		X,X	10,12
20,26				7,9	9,11
16,17					

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

BT3Y9Y — PowerPlex® 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Results	No Results	No Results		

BW3A6Y — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

BYQL44 — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

BZHHTX — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Results	No Results	No Results		

C4CZYP — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

CEZP6P — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

CFRNJN — Investigator® 24plex GO! — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

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

CFUFB4 — Identifiler® Direct (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
	22,23		17,18	9,11	
9,10	12,13			12,13	10,13
15,16	12,13	28,31.2		X,X	10,12
20,26				7,9	9,11
16,17					

CNLTCP — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	N.R.			N.R.	

CUQUBX — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Results	No Results	No Results		

CVKF24 — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Results	No Results	No Results		

CWVHQM — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	-			-	

CYJUPT — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15		7,9	9,11
16,17	NR				

D27TFW — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	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

WebCode / Item						
D7ZP6M	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					
DPTTJ3	GlobalFiler™ Express					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	NM			NM	
DQKN9W	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					
E6Z97V	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					
EJFGXL	GlobalFiler™ (STRmix)					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					
EM6GKX	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					
EMJ3WK	Investigator® 24plex GO!					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

TABLE 1

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

Item 1 - STR Results

F432XC — PowerPlex® 21 (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
15,15.3	22,23		17,18	9,11	12,19
9,10	12,13		17,19.3	12,13	10,13
15,16	12,13	28,31.2		X,X	10,12
20,26	10,12	7,15		7,9	9,11
16,17					

F7ADJJ — Investigator® 24plex GO! (Item 1)

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

F82CTC — GlobalFiler™ (Item 1)

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	NR			NR	

F8M8WY — GlobalFiler™ Express (Item 1)

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No results			No results	

F8N68U — PowerPlex® Fusion 6C (Item 1)

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

F9E4LT — PowerPlex® Fusion 6C (Item 1)

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Results	No Results	No Results		

FEHA2V — PowerPlex® 6C (Item 1)

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Results	No Results	No Results		

TABLE 1

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

Item 1 - STR Results

FG99FU — 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
1	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	No Results			No Results	

FGTRK2 — PowerPlex® Fusion 6C

1	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	No Results	No Results	No Results		

G3LJVH — GlobalFiler™ (STRmix)

1	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

G6VCBQ — PowerPlex® Fusion 6C

1	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	NR	NR	NR		

GD7U6A — PowerPlex® Fusion 6C

1	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	ND	ND	ND		

GLLC2P — PowerPlex® Fusion 6C

1	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	NR	NR	NR		

H2UPWT — PowerPlex® Fusion 6C

1	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

TABLE 1

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

Item 1 - STR Results

H9REDW — GlobalFiler™ Express

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No results			No results	

Item: 1

HF9XNJ — GlobalFiler™

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

Item: 1

HWDKYH — PowerPlex® Fusion 5C

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15		7,9	9,11
16,17					

Item: 1

JBQABQ — Investigator® 24plex

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

Item: 1

JCLV3V — GlobalFiler™

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

Item: 1

JHVUYV — GlobalFiler™ Express

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	NR			NR	

Item: 1

JU7JCQ — PowerPlex® Fusion 6C

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

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

JU7L2V — GlobalFiler™ Express

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

JVXHQP — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Results	No Results	No Results		

K6GBFQ — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

K7Y3TG — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	--			--	

KCF2YF — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15		7,9	9,11
16,17					

KDAR4V — GlobalFiler™ Express

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	NM			NM	

KE7YCE — Investigator® 24plex GO!

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

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

KGBR7D — Investigator® 24plex GO!

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

KJJKLL — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	no results			no results	

KPPG6L — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

KREMMW — GlobalFiler™ Express

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	NM			NM	

KWN28G — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	--			--	

L868GP — GlobalFiler™, Express

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

LL2C2F — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

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

M8KQ2M — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Results	No Results	No Results		

MA93ZT — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

MPFJMK — PowerPlex® Fusion 6c (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Results	No Results	No Results		

N74WYR — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Results	No Results	No Results		

ND69WA — Investigator® 24plex GO! (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	N/A
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	N/A	N/A	26.2,32.2	7,9	9,11
16,17	N/A	N/A	N/A	N/A	

NG2ULR — Identifiler® Direct (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	22,23		17,18	9,11	
9,10	12,13			12,13	10,13
15,16	12,13	28,31.2		X,X	10,12
20,26				7,9	9,11
16,17					

NKNC4C — PowerPlex® (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15		7,9	9,11
16,17					

TABLE 1

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

Item 1 - STR Results

NM8Q8D GlobalFiler™

Item						
1	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	--			--	

NNNK9M PowerPlex® Fusion 6C

Item						
1	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

P63JQP GlobalFiler™ Express

Item						
1	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	No results			No results	

P884GB GlobalFiler™

Item						
1	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

PBWFFG PowerPlex® Fusion 6C

Item						
1	15,15.3	22,23	10,14	17,18	9,11	Not Tested
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	No Results	No Results	No Results	Not Tested	

PFKXUR PowerPlex® Fusion

Item						
1	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26	10,12	7,15		7,9	9,11
	16,17	NR				

PYXF3C GlobalFiler™

Item						
1	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

TABLE 1

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

Item 1 - STR Results

Q2LDUF — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

QJG4NN — GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	No results			No results	

QL9ZCH — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	No Results	No Results	No Results		

QRYCCK — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

QWQG8A — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

R2VZJ8 — PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26	10,12	7,15		7,9	9,11
	16,17					

REN9HA — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

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

RGTRNH — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Result	No Result	No Result		

RJWMA8 — Investigator® 24plex GO! — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

RPPR2P — PowerPlex® Fusion — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15		7,9	9,11
16,17	NR				

TEMNE8 — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

TMTQCD — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	NR	NR	NR		

TNLJAH — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

TTFFY9 — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

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

TV8ED8 — Investigator® 24plex GO! — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

TVA76M — Identifiler® Direct — Item 1

	22,23		17,18	9,11	
9,10	12,13			12,13	10,13
15,16	12,13	28,31.2		X,X	10,12
20,26				7,9	9,11
16,17					

TYAHZM — GlobalFiler™ Express — Item 1

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	NM			NM	

UBVAZG — PowerPlex® Fusion 6C — Item 1

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

UDM9EF — PowerPlex® Fusion 6C — Item 1

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Results	No Results	No Results		

UEUMLL — PowerPlex® Fusion 6C — Item 1

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Results	No Results	No Results		

UGGCY8 — GlobalFiler™ (STRmix) — Item 1

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

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

UGJWVM — PowerPlex® Fusion — Item 1

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26	10,12	7,15		7,9	9,11
	16,17	NR				

UK7BLH — PowerPlex® Fusion 6C — Item 1

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

ULGD9G — PowerPlex® Fusion 6C — Item 1

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

UPGN4G — PowerPlex® Fusion 6C — Item 1

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

UR44UC — GlobalFiler™ — Item 1

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

UV4C28 — GlobalFiler™ — Item 1

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	--			--	

UXVBE7 — GlobalFiler™ (STRmix) — Item 1

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

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

VR2V44 — Investigator® 24plex GO! (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

VYWVFB — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

W2HYN9 — PowerPlex® Fusion (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15		7,9	9,11
16,17	ND				

W96PA4 — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

WPR82J — Identifiler® Plus (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	22,23		17,18	9,11	
9,10	12,13			12,13	10,13
15,16	12,13	28,31.2		X	10,12
20,26				7,9	9,11
16,17					

WUJA84 — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

WW9L7A — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

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

WZMEW3 — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

X42DR9 — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,15.3	22,23	10,14	17,18	9,11	N/A
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	NR	NR	NR	N/A	

XARLC3 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

XCJJQ2 — Investigator® 24plex GO!

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

XFXGV3 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

XHMQ64 — Investigator® 24plex GO!

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

XPJL43 — PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26	10,12	7,15		7,9	9,11
	16,17					

TABLE 1

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

Item 1 - STR Results

XPKHCC — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

XPMA4T — PowerPlex® ESX 16 Fast

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18		
1		12,13	15,17	17,19.3		10,13
	15,16	12,13	28,31.2	11,15	X	
	20,26				7,9	
	16,17					

XUEFZ4 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

XYVKXD — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

XZ23V9 — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	NR	NR	NR		

Y3QV7H — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26	10,12	7,15		7,9	9,11
	16,17	NR				

Y4GUKG — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

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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

YDL2ZG — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Results	No Results	No Results		

YHGVWH — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

YT3Y6G — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Results	No Results	No Results		

YVPNH3 — GlobalFiler™ (STRmix) (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

YW3BZG — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Results	No Results	No Results		

YYNTH2 — PowerPlex® Fusion 6C, GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	N.D.			N.D.	

YYNYE3 — GlobalFiler™ (STRmix) (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

TABLE 1

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

Item 1 - STR Results

YZZPN7	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					
Z7GK42	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	--			--	
Z7HGCB	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					
ZA6W37	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	NR	NR	NR		
ZBXPZB	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					
ZECM8X	Investigator® 24plex Go					
	15,15.3	22,23	10,14	17,18	9,11	
1	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

TABLE 1

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

Item 2 - STR Results

227TCE   PowerPlex® Fusion 6C

2	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

23E44C   GlobalFiler™ Express

2						
	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

2CP6PD   GlobalFiler™ Express

2						
	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

2EVQFX   GlobalFiler™

2						
	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

2F39C9   PowerPlex® Fusion 6C

2						
	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

2FQB84   PowerPlex® Fusion

2						
	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20		9,9	8,11
	15,18	10				

2HV2BX   GlobalFiler™

2						
	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

TABLE 1

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

Item 2 - STR Results

2JPM34 — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20		9,9	8,11
	15,18	10				

2UJ4R6 — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

2WBZGY — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

2YHGDA — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

36LL38 — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

37G7UD — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

39YLXD — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20	18,28.2	9	8,11
	15,18	10	17	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 2 - STR Results

3CL3FY GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

3P9ABE PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20		9	8,11
	15,18	10				

3QFPJ7 GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	

3RWNYN PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

3VBJG8 PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

3W769C Investigator® 24plex

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10				

3YCA3Z GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

TABLE 1

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

Item 2 - STR Results

48KECW   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	

4ABKU9   PowerPlex® Fusion 6C

2	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

4BLKQ3   PowerPlex® Fusion 6C

2	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

4C3J97   PowerPlex® Fusion 6C

2	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

4JD36B   PowerPlex® Fusion 6C, GlobalFiler™

2	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	

4L7TEV   GlobalFiler™

2	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

4MYKMV   Investigator® 24plex GO!

2	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10				

TABLE 1

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

Item 2 - STR Results

4NU6E2	PowerPlex® Fusion					
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20		9,9	8,11
	15,18	10				
69X9RW	GlobalFiler™					
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	
6A9C3Z	PowerPlex® Fusion					
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20		9,9	8,11
	15,18	10				
6D449C	GlobalFiler™					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	
6QTZCV	PowerPlex® Fusion					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20		9	8,11
	15,18	10				
6R8EWX	PowerPlex® Fusion 6C					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20	18,28.2	9	8,11
	15,18	10	17	19		
6TKYQT	Investigator® 24plex GO!					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10				

TABLE 1

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

Item 2 - STR Results

7AZTT3 PowerPlex® Fusion 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
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

7EUMP4 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
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

7HWCBW 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
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

7JBUD3 PowerPlex® Fusion 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
16,17.3	20,21	14,14	14,14	12,12	Not Tested
9,10	11,15	{13,17}	{18,21}	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19	Not Tested	

7KHAK9 PowerPlex® Fusion 6C, 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
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20	18,28.2	9	8,11
15,18	10	17	19	2	

7MNU99 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
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10				

7NGKG9 PowerPlex® Fusion 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
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	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 2 - STR Results

83W7D8 — GlobalFiler™ (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

899UE4 — PowerPlex® Fusion 6C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

8C88Y9 — PowerPlex® Fusion 6C, GlobalFiler™ (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

8G26NY — PowerPlex® Fusion 6C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	Not Tested
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19	Not Tested	

8LT9G3 — PowerPlex® Fusion 6C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

8M2LWJ — GlobalFiler™ (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

8NYU64 — PowerPlex® Fusion 6C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	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

8WUYY4 — GlobalFiler™ (TrueAllele)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

8YKXD3 — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

9268Z9 — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

9GULVT — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

9KVKDX — PowerPlex® Fusion 6c

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

9MMG3R — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

9QXRT2 — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	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 2 - STR Results

9W9KAR — Investigator® 24plex GO!

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10				

9XGXP8 — PowerPlex® Fusion 6C

16,17.3	20,21	14,14	14,14	12,12	Not Tested
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19	Not Tested	

A37UR4 — PowerPlex® Fusion

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

A9E3BT — PowerPlex® Fusion 6C

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20	18,28.2	9	8,11
15,18	10	17	19		

ACWFX2 — PowerPlex® Fusion

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20		9,9	8,11
15,18	10				

AEKRW8 — PowerPlex® Fusion

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

BBH9AY — PowerPlex® Fusion 6C

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	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

BD8EUW — PowerPlex® Fusion 6C — Item 2

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20	18,28.2	9	8,11
15,18	10	17	19		

BK4ARU — PowerPlex® Fusion — Item 2

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20		9,9	8,11
15,18	10				

BLF9M4 — PowerPlex® Fusion 5C — Item 2

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

BP3Q6N — Investigator® 24plex GO! — Item 2

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10				

BQB3LQ — GlobalFiler™ — Item 2

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

BQUNEF — Identifiler® Plus — Item 2

	20,21		14,14	12,12	
9,10	11,15			8,12	10,12
15,19	14,15	28,32.2		X,Y	10,13
20,23				9,9	8,11
15,18					

BT3Y9Y — PowerPlex® 6C — Item 2

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	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

BW3A6Y — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

BYQL44 — GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

BZHHTX — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

C4CZYP — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

CEZP6P — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

CFRNJN — Investigator® 24plex GO!

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10				

CFUFB4 — Identifiler® Direct

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
		20,21		14	12	
2	9,10	11,15			8,12	10,12
	15,19	14,15	28,32.2		X,Y	10,13
	20,23				9	8,11
	15,18					

TABLE 1

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

Item 2 - STR Results

CNLTCP — 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
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

CUQUBX — PowerPlex® Fusion 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
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

CVKF24 — PowerPlex® Fusion 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
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

CWVHQM — 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
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

CYJUPT — 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
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20		9,9	8,11
15,18	10				

D27TFW — 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
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

D7ZP6M — 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
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

TABLE 1

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

Item 2 - STR Results

DPTTJ3 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
2	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

DQKN9W PowerPlex® Fusion 6C

2	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

E6Z97V PowerPlex® Fusion 6C

2	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

EJFGXL GlobalFiler™ (STRmix)

2	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

EM6GKX GlobalFiler™

2	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	

EMJ3WK Investigator® 24plex GO!

2	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10				

F432XC PowerPlex® 21

2	16,17.3	20,21		14,14	12,12	12,12
	9,10	11,15		18,21	8,12	10,12
	15,19	14,15	28,32.2		X,Y	10,13
	20,23	11,11	12,20		9,9	8,11
	15,18					

TABLE 1

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

Item 2 - STR Results

F7ADJJ	Investigator® 24plex GO!					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10				
F82CTC	GlobalFiler™					
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	
F8M8WY	GlobalFiler™ Express					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	
F8N68U	PowerPlex® Fusion 6C					
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		
F9E4LT	PowerPlex® Fusion 6C					
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		
FEHA2V	PowerPlex® 6C					
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		
FG99FU	GlobalFiler™					
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	

TABLE 1

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

Item 2 - STR Results

FGTRK2 — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

Item: 2

G3LJVH — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

Item: 2

G6VCBQ — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

Item: 2

GD7U6A — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

Item: 2

GLLC2P — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

Item: 2

H2UPWT — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

Item: 2

H9REDW — GlobalFiler™ Express

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

Item: 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

HF9XNJ — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

HWDKYH — PowerPlex® Fusion 5C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

JBQABQ — Investigator® 24plex — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10				

JCLV3V — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

JHVUYV — GlobalFiler™ Express — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

JU7JCQ — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

JU7L2V — GlobalFiler™ Express — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	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

JVXHQP — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

K6GBFQ — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

K7Y3TG — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

KCF2YF — PowerPlex® Fusion 5C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

KDAR4V — GlobalFiler™ Express — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

KE7YCE — Investigator® 24plex GO! — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10				

KGBR7D — Investigator® 24plex GO! — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10				

TABLE 1

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

Item 2 - STR Results

KJJKLL	GlobalFiler™					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	
KPPG6L	GlobalFiler™					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	
KREMMW	GlobalFiler™ Express					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	
KWN28G	GlobalFiler™					
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	
L868GP	GlobalFiler™, Express					
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	
LL2C2F	GlobalFiler™ (STRmix)					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	
M8KQ2M	PowerPlex® Fusion 6C					
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	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

MA93ZT PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

MPFJMK PowerPlex® Fusion 6c

	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

N74WYR PowerPlex® Fusion 6C

	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

ND69WA Investigator® 24plex GO!

	16,17.3	20,21	14	14	12	N/A
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	N/A	N/A	18,28.2	9	8,11
	15,18	10	N/A	N/A	N/A	

NG2ULR Identifiler® Direct

		20,21		14	12	
2	9,10	11,15			8,12	10,12
	15,19	14,15	28,32.2		X,Y	10,13
	20,23				9	8,11
	15,18					

NKNC4C PowerPlex®

	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20		9	8,11
	15,18	10				

NM8Q8D GlobalFiler™

	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	

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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

NNNK9M	PowerPlex® Fusion 6C					
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		
P63JQP	GlobalFiler™ Express					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	
P884GB	GlobalFiler™					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	
PBWFFG	PowerPlex® Fusion 6C					
	16,17.3	20,21	14,14	14,14	12,12	Not Tested
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19	Not Tested	
PFKXUR	PowerPlex® Fusion					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20		9	8,11
	15,18	10				
PYXF3C	GlobalFiler™					
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	
Q2LDUF	GlobalFiler™					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	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

QJG4NN	GlobalFiler™ Express					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	
QL9ZCH	PowerPlex® Fusion 6C					
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		
QRYCCK	PowerPlex® Fusion 6C					
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		
QWQG8A	GlobalFiler™					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	
R2VZJ8	PowerPlex® Fusion 5C					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20		9	8,11
	15,18	10				
REN9HA	GlobalFiler™ (STRmix)					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	
RGTRNH	PowerPlex® Fusion 6C					
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	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

RJWMA8 — Investigator® 24plex GO!   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
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10				

RPPR2P — 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
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

TEMNE8 — 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
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

TMTQCD — PowerPlex® Fusion 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
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

TNLJAH — PowerPlex® Fusion 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
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

TTFFY9 — 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
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

TV8ED8 — Investigator® 24plex GO!   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
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	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 2 - STR Results

TVA76M — Identifiler® Direct (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	20,21		14	12	
9,10	11,15			8,12	10,12
15,19	14,15	28,32.2		X,Y	10,13
20,23				9	8,11
15,18					

TYAHZM — GlobalFiler™ Express (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

UBVAZG — PowerPlex® Fusion 6C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

UDM9EF — PowerPlex® Fusion 6C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

UEUMLL — PowerPlex® Fusion 6C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

UGGCY8 — GlobalFiler™ (STRmix) (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

UGJWVM — PowerPlex® Fusion (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

TABLE 1

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

Item 2 - STR Results

UK7BLH — PowerPlex® Fusion 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
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

ULGD9G — PowerPlex® Fusion 6C — Item 2

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20	18,28.2	9	8,11
15,18	10	17	19		

UPGN4G — PowerPlex® Fusion 6C — Item 2

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20	18,28.2	9	8,11
15,18	10	17	19		

UR44UC — GlobalFiler™ — Item 2

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

UV4C28 — GlobalFiler™ — Item 2

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

UXVBE7 — GlobalFiler™ (STRmix) — Item 2

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

VR2V44 — Investigator® 24plex GO! — Item 2

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10				

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 2 - STR Results

VYWVFB — PowerPlex® Fusion 6C — 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
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20	18,28.2	9	8,11
15,18	10	17	19		

W2HYN9 — PowerPlex® Fusion — 2

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20		9,9	8,11
15,18	10				

W96PA4 — GlobalFiler™ — 2

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

WPR82J — Identifiler® Plus — 2

	20,21		14	12	
9,10	11,15			8,12	10,12
15,19	14,15	28,32.2		X,Y	10,13
20,23				9	8,11
15,18					

WUJA84 — GlobalFiler™ — 2

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

WW9L7A — GlobalFiler™ — 2

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

WZMEW3 — GlobalFiler™ (STRmix) — 2

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

TABLE 1

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

Item 2 - STR Results

X42DR9	PowerPlex® Fusion 6C					
	16,17.3	20,21	14,14	14,14	12,12	N/A
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19	N/A	
XARLC3	GlobalFiler™					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	
XCJJQ2	Investigator® 24plex GO!					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10				
XFXGV3	GlobalFiler™					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	
XHMQ64	Investigator® 24plex GO!					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10				
XPJL43	PowerPlex® Fusion 5C					
	16,17.3	20,21	14	14	12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20		9	8,11
	15,18	10				
XPKHCC	PowerPlex® Fusion 6C					
	16,17.3	20,21	14,14	14,14	12,12	
2	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	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

XPMA4T   PowerPlex® ESX 16 Fast

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14		
	11,15	13,17	18,21		10,12
15,19	14,15	28,32.2	15	X,Y	
20,23				9	
15,18					

XUEFZ4   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

XYVKXD   PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

XZ23V9   PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

Y3QV7H   PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

Y4GUKG   PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

YDL2ZG   PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

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

YHGVWH — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

YT3Y6G — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

YVPNH3 — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

YW3BZG — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

YYNTH2 — PowerPlex® Fusion 6C, GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

YYNYE3 — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

YZZPN7 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

TABLE 1

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

Item 2 - STR Results

Z7GK42 GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

Z7HGCB PowerPlex® Fusion 6C

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

ZA6W37 PowerPlex® Fusion 6C

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

ZBXPZB PowerPlex® Fusion 6C

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

ZECM8X Investigator® 24plex Go

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10				

TABLE 1

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

Item 3 - STR Results

227TCE	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	No results			No results	
23E44C	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	No Results			No Results	
2CP6PD	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	No Results			No Results	
2EVQFX	GlobalFiler™ (STRmix)					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					
2F39C9	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					
2FQB84	PowerPlex® Fusion					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15		7,9	9,11
	16,17	NR				
2HV2BX	GlobalFiler™ (STRmix)					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

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

2JPM34 — PowerPlex® Fusion (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15		7,9	9,11
16,17	NR				

2UJ4R6 — PowerPlex® Fusion 6C (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	NR	NR	NR		

2WBZGY — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

2YHGDA — PowerPlex® Fusion 6C (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

36LL38 — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

37G7UD — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

3CL3FY — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

TABLE 1

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

Item 3 - STR Results

3P9ABE — PowerPlex® Fusion — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15		7,9	9,11
16,17	NR				

3QFPJ7 — GlobalFiler™ — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

3RWNYN — PowerPlex® Fusion 6C — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	ND	ND	ND		

3VBJG8 — GlobalFiler™ — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

3W769C — GlobalFiler™ — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

3YCA3Z — GlobalFiler™ (STRmix) — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

48KECW — GlobalFiler™ — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	Not Detected			Not Detected	

TABLE 1

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

4ABKU9	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					
4BLKQ3	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	NR	NR	NR		
4C3J97	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	No Results			No Results	
4JD36B	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	N.D.			N.D.	
4L7TEV	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					
4NU6E2	PowerPlex® Fusion					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15		7,9	9,11
	16,17	NR				
69X9RW	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	--			--	

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 3 - STR Results

6A9C3Z — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15		7,9	9,11
	16,17					

6D449C — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

6R8EWX — PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

7AZTT3 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

7EUMP4 — PowerPlex® Fusion 6c

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	No Results	No Results	No Results		

7HWCBW — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

7JBUD3 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	22,23	10,14	17,18	9,11	Not Tested
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	Not Tested	Not Tested	26.2,32.2	7,9	9,11
	16,17	No Results	Not Tested	Not Tested	No Results	

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TABLE 1

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

7KHAK9 — PowerPlex® Fusion 6C, GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

7MNU99 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

7NGKG9 — PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

83W7D8 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	N.R.			N.R.	

899UE4 — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

8C88Y9 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	N.D.			N.D.	

8G26NY — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	15,15.3	22,23	10,14	17,18	9,11	Not Tested
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	No Results	No Results	No Results	Not Tested	

TABLE 1

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

Item 3 - STR Results

8LT9G3	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	No Results			No Results	
8M2LWJ	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					
8M7Z8Y	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	NR	NR	NR		
8NYU64	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					
8WUYY4	GlobalFiler™ (TrueAllele)					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					
8YKXD3	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	No Results			No Results	
9268Z9	PowerPlex® Fusion					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26	10,12	7,15		7,9	9,11
	16,17	NR				

TABLE 1

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

Item 3 - STR Results

9GULVT   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
3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

9KVKDX   PowerPlex® Fusion 6c

3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	NR	NR	NR		

9MMG3R   GlobalFiler™

3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	NR			NR	

9QXRT2   GlobalFiler™

3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	No Results			No Results	

9XGXP8   GlobalFiler™

3	15,15.3	22,23	10,14	17,18	9,11	Not Tested
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	Not Tested	Not Tested	26.2,32.2	7,9	9,11
	16,17	No Results	Not Tested	Not Tested	No Results	

A37UR4   PowerPlex® Fusion

3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26	10,12	7,15		7,9	9,11
	16,17	NR				

A9E3BT   PowerPlex® Fusion 6C (STRmix)

3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

TABLE 1

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

Item 3 - STR Results

ACWFX2 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
3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	NR			NR	

AEKRW8 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
3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26	10,12	7,15		7,9	9,11
	16,17	NR				

AXEMAV 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
3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

BBH9AY 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
3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

BD8EUW PowerPlex® Fusion 6C (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
3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

BK4ARU 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
3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15		7,9	9,11
	16,17	NR				

BLF9M4 PowerPlex® Fusion 5C

	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	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26	10,12	7,15		7,9	9,11
	16,17					

TABLE 1

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

Item 3 - STR Results

BQB3LQ — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	--			--	

BQUNEF — 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
	22,23		17,18	9,11	
9,10	12,13			12,13	10,13
15,16	12,13	28,31.2		X,X	10,12
20,26				7,9	9,11
16,17					

BT3Y9Y — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

BW3A6Y — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

BYQL44 — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

BZHHTX — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

C4CZYP — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

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

WebCode / Item / Kit	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
CEZP6P 3 GlobalFiler™	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					
CFUFB4 3 Identifiler® Plus		22,23		17,18	9,11	
	9,10	12,13			12,13	10,13
	15,16	12,13	28,31.2		X,X	10,12
	20,26				7,9	9,11
	16,17					
CNLTCP 3 GlobalFiler™	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	N.R.			N.R.	
CUQUBX 3 GlobalFiler™	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	No Results			No Results	
CVKF24 3 GlobalFiler™	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	No Results			No Results	
CWVHQM 3 GlobalFiler™	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	-			-	
CYJUPT 3 PowerPlex® Fusion	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15		7,9	9,11
	16,17	NR				

TABLE 1

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

Item 3 - STR Results

D27TFW — 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
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	No Results	No Results	No Results		

D7ZP6M — GlobalFiler™

Item						
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

DPTTJ3 — GlobalFiler™

Item						
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	NM			NM	

DQKN9W — PowerPlex® Fusion 6C

Item						
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

E6Z97V — PowerPlex® Fusion 6C

Item						
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

EJFGXL — GlobalFiler™ (STRmix)

Item						
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

EM6GKX — GlobalFiler™

Item						
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

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

ERWN6R 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

F432XC PowerPlex® 21 (STRmix version 2.7) — 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
15,15.3	22,23		17,18	9,11	12,19
9,10	12,13		17,19.3	12,13	10,13
15,16	12,13	28,31.2		X,X	10,12
20,26	10,12	7,15		7,9	9,11
16,17					

F82CTC 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	NR			NR	

F8M8WY 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

F8N68U 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

F9E4LT 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

FEHA2V 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

TABLE 1

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

Item 3 - STR Results

FG99FU	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	No Results	No Results	No Results		
FGTRK2	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	No Results			No Results	
G3LJVH	GlobalFiler™ (STRmix)					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					
G6VCBQ	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	NR	NR	NR		
GD7U6A	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	ND	ND	ND		
GLLC2P	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	NR	NR	NR		
H2UPWT	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

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

H9REDW — GlobalFiler™ — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No results			No results	

HF9XNJ — GlobalFiler™ — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

HWDKYH — PowerPlex® Fusion 5C — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15		7,9	9,11
16,17					

JBQABQ — GlobalFiler™ — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

JCLV3V — PowerPlex® Fusion 6C — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Results	No Results	No Results		

JHVUYV — GlobalFiler™ — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	NR			NR	

JU7JCQ — PowerPlex® Fusion 6C — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

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

JU7L2V — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

JVXHQP — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

K6GBFQ — PowerPlex® Fusion 6C (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

K7Y3TG — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	--			--	

KCF2YF — PowerPlex® Fusion 5C (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15		7,9	9,11
16,17					

KDAR4V — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	NM			NM	

KJJKLL — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	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 3 - STR Results

KPPG6L — GlobalFiler™ (STRmix) — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

KREMMW — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	NM			NM	

KWN28G — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	--			--	

LL2C2F — GlobalFiler™ (STRmix) — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

M8KQ2M — PowerPlex® Fusion — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15		7,9	9,11
16,17	No Results				

MA93ZT — PowerPlex® Fusion 6C (STRMix) — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

MPFJMK — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	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 3 - STR Results

N74WYR — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	No Results			No Results	

NG2ULR — Identifiler® Plus

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3		22,23		17,18	9,11	
	9,10	12,13			12,13	10,13
	15,16	12,13	28,31.2		X,X	10,12
	20,26				7,9	9,11
	16,17					

NM8Q8D — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	--			--	

NNNK9M — PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

P63JQP — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	No results			No results	

P884GB — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

PBWFFG — PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	15,15.3	22,23	10,14	17,18	9,11	Not Tested
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	No Results	No Results	No Results	Not Tested	

TABLE 1

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

Item 3 - STR Results

PFKXUR 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15		7,9	9,11
16,17	NR				

PYFT7F 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

Q2LDUF 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

QJG4NN 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No results			No results	

QL9ZCH 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

QRYCCK 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

QWQG8A 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

TABLE 1

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

Item 3 - STR Results

REN9HA — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	
3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

RGTRNH — GlobalFiler™

3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	No Result			No Result	

RPPR2P — PowerPlex® Fusion

3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26	10,12	7,15		7,9	9,11
	16,17	NR				

TEMNE8 — GlobalFiler™

3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

THYWEC — PowerPlex® Fusion 6C

3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

TMTQCD — PowerPlex® Fusion 6C

3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	NR	NR	NR		

TNLJAH — PowerPlex® Fusion 6C

3	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

TABLE 1

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

Item 3 - STR Results

TRAXZD — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	NR	NR	NR		

TTFFY9 — GlobalFiler™ — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

TVA76M — Identifiler® Plus — Item 3

	22,23		17,18	9,11	
9,10	12,13			12,13	10,13
15,16	12,13	28,31.2		X,X	10,12
20,26				7,9	9,11
16,17					

TYAHZM — GlobalFiler™ Casework — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	NM			NM	

UBVAZG — PowerPlex® Fusion 6C — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

UDM9EF — GlobalFiler™ — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

UEUMLL — GlobalFiler™ — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	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 3 - STR Results

UGGCY8 — GlobalFiler™ (STRmix) — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

UGJWVM — PowerPlex® Fusion — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15		7,9	9,11
16,17	NR				

UK7BLH — PowerPlex® Fusion 6C — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

ULGD9G — PowerPlex® Fusion 6C — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

UPGN4G — PowerPlex® Fusion 6C (STRmix) — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

UR44UC — GlobalFiler™ — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

UV4C28 — GlobalFiler™ — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	--			--	

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

UXVBE7 — 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

VYWVFB — PowerPlex® Fusion 6C (STRmix) — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

W2HYN9 — PowerPlex® Fusion — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15		7,9	9,11
16,17	ND				

W96PA4 — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

W9GLF9 — PowerPlex® Fusion 6C — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

WPR82J — Identifiler® Plus — Item 3

	22,23		17,18	9,11	
9,10	12,13			12,13	10,13
15,16	12,13	28,31.2		X	10,12
20,26				7,9	9,11
16,17					

WUJA84 — GlobalFiler™ — Item 3

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

TABLE 1

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

Item 3 - STR Results

WW9L7A 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
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

WZMEW3 GlobalFiler™ (STRmix)

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

X42DR9 PowerPlex® Fusion 6C

15,15.3	22,23	10,14	17,18	9,11	N/A
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	NR	NR	NR	N/A	

XARLC3 GlobalFiler™

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

XFXGV3 GlobalFiler™

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

XPKHCC PowerPlex® Fusion 6C

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

XPMA4T PowerPlex® ESX 16 Fast

15,15.3	22,23	10,14	17,18		
	12,13	15,17	17,19.3		10,13
15,16	12,13	28,31.2	11,15	X	
20,26				7,9	
16,17					

TABLE 1

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

Item 3 - STR Results

XUEFZ4   GlobalFiler™   (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

XYVKXD   PowerPlex® Fusion 6C   (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

XZ23V9   PowerPlex® Fusion 6c   (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	NR	NR	NR		

Y3QV7H   PowerPlex® Fusion   (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15		7,9	9,11
16,17	NR				

Y4GUKG   PowerPlex® Fusion 6C (STRmix)   (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

YDL2ZG   GlobalFiler™   (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

YHGVWH   GlobalFiler™   (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

TABLE 1

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

Item 3 - STR Results

Item						
YT3Y6G	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	No Results			No Results	
YVPNH3	GlobalFiler™ (STRmix)					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					
YW3BZG	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	No Results			No Results	
YYNTH2	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	N.D.			N.D.	
YYNYE3	GlobalFiler™ (STRmix)					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					
YZZPN7	GlobalFiler™ (STRmix)					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					
Z7GK42	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	--			--	

TABLE 1

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

Item 3 - STR Results

Z7HGCB	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

ZA6W37	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	NR	NR	NR		

ZBXPZB	PowerPlex® Fusion 6C					
	15,15.3	22,23	10,14	17,18	9,11	
3	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17					

TABLE 1

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

Item 3e - STR Results

PYXF3C	GlobalFiler™					
	15,15.3	22,23	10,14	17,18	9,11	
3e	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17					

TABLE 1

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

Item 3sp - STR Results

PYXF3C	GlobalFiler™

3sp	

TABLE 1

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

7NGKG9	PowerPlex® Fusion 6C (STRmix)					
	15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
4	9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
	15,16,17,18	10	17	19		
Y4GUKG	PowerPlex® Fusion 6C (STRmix)					
	15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
4	9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
	15,16,17,18	10	17	19		

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 4e - STR Results

227TCE	GlobalFiler™					
	15,15.3,[17.3]	[20],[21],22,23	10,14	17,18	9,11,[12]	
4e	9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
	15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12
	20,[23],26			[18],26.2,[28.2],32.2	7,9	9,11
	16,17,[18]	10			2	

23E44C	GlobalFiler™					
	15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
4e	9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	12,13	10,[12],13
	15,16	12,13,[14]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
	20,[23],26			[18],26.2,[28.2],32.2	7,9	9,11
	16,17	[10]			[2]	

2CP6PD	GlobalFiler™					
	15,15.3,[17.3]	[20,21],22,23	10,14	[14],17,18	9,11,[12]	
4e	9,10	[11],12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
	15,16,[19]	12,13,[14,15]	28,31.2,[32.2]	11,15	X,[Y]	10,12
	20,[23],26			[18],26.2,[28.2],32.2	7,9	9,11
	16,17	[10]			[2]	

2EVQFX	GlobalFiler™ (STRmix)					
	15,15.3,17.3	20,22,23	10,14	14,17,18	9,11,12	
4e	9,10	12,13,15	13,15,17	17,19.3,21	8,12,13	10,13
	15,16,19	12,13,15	28,31.2	11,15	X,Y	10,12
	20,23,26			18,26.2,28.2,32.2	7,9	8,9,11
	16,17,18	10			2	

2F39C9	PowerPlex® Fusion 6C					
	15,15.3,17.3	20,22,23	10,14	14,17,18	9,11,12	
4e	9,10	12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
	16,17,18	10	17	19		

2FQB84	PowerPlex® Fusion					
	15,15.3	22,22	10,14	14,17,18	9,11	
4e	9,10	12,13	15,17	17,19.3	12,13	10,12,13
	15,16	12,13	28,[31.2]	11,15	X,X	10,12,13
	20,26	10,11,12	15,[20]		7,9	9,11
	16,17	NR				

2HV2BX	GlobalFiler™ (STRmix)					
	15,15.3,[17.3]	20,22,23	10,14	14,17,18	9,11,12	
4e	9,10	12,13,15	13,15,17	17,19.3,[21]	8,12,13	10,12,13
	15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12
	20,[23],26			[18],26.2,[28.2],32.2	7,9	9,11
	16,17,[18]	[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 4e - STR Results

2JPM34	PowerPlex® Fusion					
	15,15.3,[16,17.3]	20,21,22,23	10,14	14,17,18	9,11,12	
4e	9,10	11,12,13,15	[13],15,17	17,18,19.3,21	[8],12,13	10,[12],13
	15,16,[19]	12,13,[14,15]	28,31.2,[32.2]	11,15	X,X,[Y]	10,12,13
	20,[23],26	10,11,12	7,[12],15,[20]		7,9	[8],9,11
	[15],16,17,[18]	10				
2UJ4R6	PowerPlex® Fusion 6C					
	15,15.3,17.3	20,22,23	10,14	14,17,18	9,11,12	
4e	9,10	12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
	16,17,18	10	17	19		
2WBZGY	GlobalFiler™					
	15,15.3	[21],22,23	10,14	[14],17,[18]	9,11,[12]	
4e	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	10				
2YHGDA	PowerPlex® Fusion 6C					
	15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
4e	9,10	11,12,13,15	13,15,17	17,18,19.3	8,12,13	10,12,13
	15,16,19	12,13,14	28,31.2,32.2	11,15	X,Y	10,12
	20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
	15,16,17	10	17	19		
36LL38	GlobalFiler™					
	15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
4e	9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
	15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
	20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
	16,17,[18]	10			2	
37G7UD	GlobalFiler™					
	15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
4e	9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
	15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
	20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
	[15],16,17,[18]	10			2	
3CL3FY	GlobalFiler™					
	15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
4e	9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
	15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
	20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
	16,17,[18]	10			2	

TABLE 1

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

Item 4e - STR Results

3P9ABE — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
	9,10	12,13,[15]	15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
	15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
	20,[23],26	10,[11],12	7,[12],15,[20]		7,9	[8],9,11
	[15],16,17,[18]	[10]				

3QFPJ7 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3	22,23	10,14	[14],17,18	9,11,[12]	
	9,10	12,13	15,17	17,19.3	12,13	10,[12],13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,[23],26			26.2,32.2	7,9	9,11
	16,17	No Results				

3RWNYN — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3,[17.3]	[20],22,23	10,14	[14],17,18	9,11,[12]	
	9,10	12,13	[13],15,17	17,19.3	[8],12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12,[13]
	20,26	10,12	7,[12],15,[20]	[18],26.2,[28.2],32.2	7,9	[8],9,11
	16,17,[18]	ND	[17]	ND		

3VBJG8 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
	9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
	15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
	20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
	16,17,[18]	10			2	

3W769C — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
	9,10	12,13,[15]	[13],15,17	17,19.3,[21]	[8],12,13	10,[12],13
	15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
	20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
	[15],16,17,[18]	10			2	

3YCA3Z — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
	9,10	12,13,15	13,15,17	17,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26			18,26.2,28.2,32.2	7,9	8,9,11
	15,16,17	10			2	

48KECW — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	Not Detected			Not Detected	

TABLE 1

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

4ABKU9 — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
	9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
	16,17,18	10	17	19		

4BLKQ3 — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3,16,17.3	20,22,23	10,14	14,17,18	9,11,12	
	9,10	12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
	15,16,17,18	10	17	19		

4C3J97 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3,[17.3]	[20],22,23	10,14	[14],17,18	9,11,[12]	
	9,10	[11],12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
	15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,Y	10,12,[13]
	20,26			[18],26.2,[28.2],32.2	7,9	[8],9,11
	16,17,[18]	10			2	

4JD36B — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X,[Y]	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	N.D.			N.D.	

4L7TEV — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3,[17.3]	[20,21],22,23	10,14	[14],17,18	9,11,[12]	
	9,10	12,13,[15]	[13],15,17	17,19.3,[21]	[8],12,13	10,[12],13
	15,16,[19]	12,13,[14]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
	20,[23],26			26.2,[28.2],32.2	7,9	[8],9,11
	[15],16,17	[10]			[2]	

4NU6E2 — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3	NR	NR	NR	9,11	
	NR	12,13	NR	17,19.3	NR	10,13
	15,16	NR	28,31.2	11,15	X,X	10,12
	20,26	NR	NR		7,9	NR
	NR	NR				

69X9RW — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3,[17.3]	[20,21],22,23	10,14	[14],17,18	9,11,[12]	
	9,10	12,13,[15]	[13],15,17	17,19.3,[21]	[8],12,13	10,[12],13
	15,16,[19]	12,13,[14,15]	28,31.2,[32.2]	11,15	X	10,12,[13]
	20,[23],26			[18],26.2,[28.2],32.2	7,9	9,11
	16,17,[18]	[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 4e - STR Results

6A9C3Z   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
	15,15.3,[17.3]	22,23	10,14	[14],17,18	9,11,[12]	
4e	9,10	[11],12,13,[15]	15,[16],17	17,[18],19.3	12,13	10,[12],13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,[23],26	10,[11],12	7,15		7,9	[8],9,11
	16,17					

6D449C   GlobalFiler™

	15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
4e	9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26			18,26.2,28.2,32.2	7,9	8,9,11
	15,16,17,18	10			2	

6R8EWX   PowerPlex® Fusion 6C (STRmix)

	15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
4e	9,10	12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
	15,16,17,18		17	19		

7AZTT3   GlobalFiler™

	15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
4e	9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
	15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
	20,[23],26			26.2,32.2	7,9	9,11
	16,17,[18]	10			2	

7EUMP4   PowerPlex® Fusion 6c

	15,15.3,[16],[17.3]	[20],22,23	10,14	[14],17,18	9,11	
4e	9,10	12,13,[15]	15,17	17,19.3,[21]	[8],12,13	10,13
	15,16,[19]	12,13,[15]	28,31.2	11,15	X,X	10,12
	20,[23],26	10,[11],12	7,[12],15,[20]	[18],26.2,[28.2],32.2	7,9	[8],9,11
	16,17,[18]	No Results	No Results	No Results		

7HWCBW   GlobalFiler™ (STRmix)

	15,15.3,17.3	22,23	10,14	14,17,18	9,11,12	
4e	9,10	12,13,15	15,17	17,19.3	12,13	10,13
	15,16	12,13,15	28,31.2	11,15	X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	10				

7JBUD3   GlobalFiler™

	Inconclusive	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	Not Tested
4e	9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
	15,16	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
	20,[23],26	Not Tested	Not Tested	[18],26.2,32.2	7,9	9,11
	16,17,[18]	10	Not Tested	Not Tested	2	

TABLE 1

WebCode / Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
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 4e - STR Results

7KHAK9 — PowerPlex® Fusion 6C, GlobalFiler™

4e	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,15.3	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
	9,10	12,13,[15]	[13],15,17	17,19.3,[21]	[8],12,13	10,[12],13
	15,16,[19]	12,13	28,31.2	11,15	X,X,[X,Y]	10,12,[13]
	20,26	10,12	7,15	[18],26.2,32.2	7,9	9,11
	[15],16,17	[10]				

7MNU99 — GlobalFiler™

4e						
	15,15.3	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
	9,10	12,13,[15]	[13],15,17	17,19.3,[21]	12,13	10,13
	15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
	20,[23],26			[18],26.2,[28.2],32.2	7,9	9,11
	16,17,[18]	10			2	

83W7D8 — GlobalFiler™

4e						
	15,15.3	[20],22,23	10,14	[14],17,18	9,11,[12]	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16,[19]	12,13	28,31.2	11,15	X,X	10,12
	20,[23],26			26.2,32.2	7,9	9,11
	16,17	N.R.			N.R.	

899UE4 — PowerPlex® Fusion 6C

4e						
	15,15.3	20,22,23	10,14	14,17,18	9,11,12	
	9,10	12,13	13,15,17	17,19.3	12,13	10,13
	15,16	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12
	20,23,26	10,12	7,15,20	26.2,32.2	7,9	9,11
	16,17	10	17			

8C88Y9 — GlobalFiler™

4e						
	15,15.3	[20,21],22,23	10,14	[14],17,18	9,11,[12]	
	9,10	12,13	[13],15,17	17,19.3,[21]	[8],12,13	10,[12],13
	15,16,[19]	12,13,[15]	28,31.2,[32.2]	11,15	X,X,[Y]	10,12,[13]
	20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
	16,17	N.D.			2	

8G26NY — PowerPlex® Fusion 6C

4e						
	15,15.3,[16],[17.3]	[20],22,23	10,14	[14],17,18	9,11,[12]	Not Tested
	9,10	12,13,[15]	[13],15,17	17,[18],19.3	[8],12,13	10,13
	15,16,[19]	12,13	28,31.2	11,15	X,X	10,12
	20,[23],26	10,[11],12	7,15	26.2,[28.2],32.2	7,9	[8],9,11
	16,17,[18]	No Results	17	19	Not Tested	

8LT9G3 — GlobalFiler™

4e						
	15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
	9,10	12,13,[15]	15,17	17,[18],19.3,[21]	[8],12,13	10,13
	15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
	20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
	16,17,[18]	10			2	

TABLE 1

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

Item 4e - STR Results

8M2LWJ — GlobalFiler™ (STRmix)

D1S1656 / ...	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	[11],12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
15,16,[19]	12,13,[14],[15]	28,31.2	11,15	X,[Y]	10,12,[13]
20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
[15],16,17,[18]	[10]			[2]	

8M7Z8Y — PowerPlex® Fusion 6C

15,15.3,16,17.3	20,22,23	10,14	14,17,18	9,11,12	
9,10	12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
15,16,17,18	10	17	19		

8NYU64 — PowerPlex® Fusion 6C

15,15.3,16,17.3	20,22,23	10,14	14,17,18	9,11,12	
9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26	10,11,12	7,12,15,20	26.2,28.2,32.2	7,9	8,9,11
16,17,18	10		19		

8WUYY4 — GlobalFiler™ (TrueAllele)

15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26			18,26.2,28.2,32.2	7,9	8,9,11
15,16,17,18	10			2	

8YKXD3 — GlobalFiler™

15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
[15],16,17,[18]	10			2	

9268Z9 — PowerPlex® Fusion

15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26	10,11,12	7,12,15,20		7,9	8,9,11
16,17,18	10				

9GULVT — GlobalFiler™

15,15.3,[17.3]	[20,21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,[18],19.3	[8],12,13	10,13
15,16,[19]	12,13,[14]	28,31.2,[32.2]	11,15	X,X	10,12,[13]
20,[23],26			26.2,[28.2],32.2	7,9	[8],9,11
16,17	10			2	

TABLE 1

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

Item 4e - STR Results

9KVKDX — PowerPlex® Fusion 6c

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
16,17,18	10	17	19		

9MMG3R — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	15,17	17,[18],19.3	12,13	10,13
15,16	12,13,[14]	28,31.2,[32.2]	11,15	X	10,12
20,[23],26			26.2,32.2	7,9	[8],9,11
16,17	NR			NR	

9QXRT2 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
[15],16,17,[18]	10			2	

9XGXP8 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11,[12]	Not Tested
9,10	12,13	[13],15,17	17,19.3	[8],12,13	10,13
15,16	12,13,[14]	28,31.2,[32.2]	11,15	X,X	10,12
20,[23],26	Not Tested	Not Tested	26.2,32.2	7,9	9,11
16,17	10	Not Tested	Not Tested	No Results	

A37UR4 — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26	10,11,12	7,12,15,20		7,9	8,9,11
15,16,17,18	10				

A9E3BT — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	14,17,18	9,11	
9,10	12,13	13,15,17	17,19.3	8,12,13	10,13
15,16	12,13	28,31.2,32.2	11,15	X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

ACWFX2 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,19.3	[8],12,13	10,[12],13
15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,X	10,12,[13]
20,[23],26			26.2,[28.2],32.2	7,9	9,11
16,17,[18]	10			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 4e - STR Results

AEKRW8 PowerPlex® Fusion

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
	15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
	9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26	10,11,12	7,12,15,20		7,9	8,9,11
	15,16,17,18	10				

AXEMAV PowerPlex® Fusion 6C

4e						
	15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
	9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
	16,17,18	10	17	19		

BBH9AY PowerPlex® Fusion 6C

4e						
	15,15.3,17.3	20,22,23	10,14	14,17,18	9,11,12	
	9,10	12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16	12,13,14	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26	10,11,12	7,12,15	18,26.2,28.2,32.2	7,9	8,9,11
	16,17,18	10	17	19		

BD8EUW PowerPlex® Fusion 6C (STRmix)

4e						
	15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
	9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
	15,16,17,18	10	17	19		

BK4ARU PowerPlex® Fusion

4e						
	15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
	9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,X,[Y]	10,12,13
	20,23,26	10,11,12	7,12,15,20		7,9	8,9,11
	15,16,17,18	10				

BLF9M4 PowerPlex® Fusion 5C

4e						
	15,15.3,17.3	22,23	10,14	14,17,18	9,11,12	
	9,10	12,13	15,17	17,19.3,21	12,13	10,13
	15,16,19	12,13	28,31.2,32.2	11,15	X	10,12,13
	20,26	10,12	7,15		7,9	8,9,11
	16,17,18					

BQB3LQ GlobalFiler™

4e						
	15,15.3,[17.3]	22,23	10,14	[14],17,18	9,11,[12]	
	9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
	15,16	12,13	28,31.2	11,15	X,[Y]	10,12
	20,26			[18],26.2,32.2	7,9	9,11
	16,17	--			--	

TABLE 1

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

Item 4e - STR Results

BQUNEF — Identifiler® Plus

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
	22,23		17,18	9,11	
9,10	12,13			12,13	10,13
15,16	12,13	28,31.2		X,X	10,12
20,26				7,9	9,11
16,17					

BT3Y9Y — 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
15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
16,17,[18]	No Results			2	

BW3A6Y — 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
15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
15,16	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
[15],16,17,[18]	10			2	

BYQL44 — 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
15,15.3,[17.3]	[20],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13	[13],15,17	17,19.3,[21]	[8],12,13	10,[12],13
15,16,[19]	12,13	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
20,26			26.2,32.2	7,9	9,11
16,17	No Results			[2]	

BZHHTX — 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
15,15.3	[20],22,[23]	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,[18],19.3	[8],12,13	10,13
15,16,[19]	12,13,[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
20,26			26.2,[28.2],32.2	7,9	9,11
16,17,[18]	10			2	

C4CZYP — 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
15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13	15,17	17,19.3	[8],12,13	10,[12],13
15,16	12,13,[14],[15]	28,31.2	11,15	X	10,12,[13]
20,[23],26			26.2,32.2	7,9	[8],9,11
16,17,[18]	[10]			[2]	

CEZP6P — 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
15,15.3	[21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,19.3	[8],12,13	10,[12],13
15,16	12,13,[14],[15]	28,31.2	11,15	X,X	10,12
20,[23],26			26.2,32.2	7,9	9,11
16,17					

TABLE 1

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

Item 4e - STR Results

CFUFB4 — Identifiler® Plus — 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
	20,21,22,23		14,17,18	9,11,12	
9,10	11,12,13,15			8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2		X,Y	10,12,13
20,23,26				7,9	8,9,11
15,16,17,18					

CNLTCP — GlobalFiler™ — 4e

15,15.3	[20],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,19.3	[8],12,13	10,13
15,16	12,13,[15]	28,31.2	11,15	X,X	10,12
20,26			26.2,[28.2],32.2	7,9	9,11
16,17	10			N.R.	

CUQUBX — GlobalFiler™ — 4e

Inconclusive	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	[11],12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
16,17,[18]	10			2	

CVKF24 — GlobalFiler™ — 4e

15,15.3,[17.3]	[20],[21],22,[23]	10,14	[14],17,18	9,11,[12]	
9,10	[11],12,13,[15]	[13],15,17	17,[18],19.3	[8],12,13	10,[12],13
15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
[15],16,17,[18]	10			2	

CWVHQM — GlobalFiler™ — 4e

15,15.3,[17.3]	[21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,19.3,[21]	[8],12,13	10,[12],13
15,16	12,13,[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12
20,26			[18],26.2,[28.2],32.2	7,9	[8],9,11
[15],16,17,[18]	[10]			-	

CYJUPT — PowerPlex® Fusion — 4e

15,15.3,16	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	11,12,13,15	15,17	17,[18],19.3,[21]	12,13	10,12,13
15,16	12,13,14,15	28,31.2,[32.2]	11,15	X,X	10,12
20,23,26	10,12	7,15,20		7,9	[9],11,11
[15],16,17,[18]	NR				

D27TFW — PowerPlex® Fusion 6C — 4e

15,15.3	[20],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13	15,17	17,19.3	[8],12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17	No Results	No Results	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 4e - STR Results

D7ZP6M — 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
15,15.3,[16,17.3]	[20,21],22,23	10,14	[14],17,18	9,11,12	
9,10	[11],12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
15,16,[19]	12,13,[14,15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
[15],16,17,[18]	[10]			[2]	

DPTTJ3 — 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
15,15.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26			18,26.2,28.2,32.2	7,9	8,9,11
15,16,17,18	10			2	

DQKN9W — PowerPlex® Fusion 6C (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
15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
16,17,18	10	17	19		

E6Z97V — PowerPlex® Fusion 6C (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
15,15.3,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
16,17,18	10	17	19		

EJFGXL — GlobalFiler™ (STRmix) (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
15,15.3,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26			18,26.2,28.2,32.2	7,9	8,9,11
15,16,17,18	10			2	

EM6GKX — 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
15,15.3	20,22,23	10,14	14,17,18	9,11,12	
9,10	11,12,13	13,15,17	17,19.3	12,13	10,12,13
15,16	12,13,14	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

ERWN6R — PowerPlex® Fusion 6C (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
15,15.3,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,15	28,31.2,32.2	11,15	X,Y	10,12
20,23,26	10,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
16,17,18	10	17	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 4e - STR Results

F432XC	PowerPlex® 21 (STRmix version 2.7)					
	15,15.3,16,17.3	20,21,22,23		14,17,18	9,11,12	12,19
4e	9,10	12,13,15		17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2		X,Y	10,12,13
	20,23,26	10,11,12	7,12,15,20		7,9	8,9,11
	15,16,17,18					
F82CTC	GlobalFiler™					
	15,15.3	[20,21],22,23	10,14	17,18	9,11	
4e	9,10	12,13	15,17	17,19.3	[8],12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	NR			NR	
F8M8WY	GlobalFiler™					
	15,15.3,[17.3]	[21],22,23	10,14	[14],17,18	9,11,[12]	
4e	9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
	15,16,[19]	12,13,[14,15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
	20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
	16,17	[10]			[2]	
F8N68U	PowerPlex® Fusion 6C					
	15,15.3	20,21,22,23	10,14	14,17,18	9,11,12	
4e	9,10	12,13,15	13,15,17	17,19.3	12,13	10,12,13
	15,16,19	12,13,14	28,31.2,32.2	11,15	X	10,12,13
	20,23,26	10,12	7,15	26.2,32.2	7,9	9,11
	16,17	10		19		
F9E4LT	GlobalFiler™					
	15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
4e	9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
	15,16	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
	20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
	16,17,[18]	10			2	
FEHA2V	GlobalFiler™					
	15,15.3,[17.3]	[20],22,23	10,14	[14],17,18	9,11,[12]	
4e	9,10	12,13,[15]	[13],15,17	17,19.3	[8],12,13	10,13
	15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
	20,[23],26			[18],26.2,32.2	7,9	9,11
	16,17	10			2	
FG99FU	PowerPlex® Fusion 6C					
	15,15.3,[17.3]	[20],22,23	10,14	[14],17,18	9,11,[12]	
4e	9,10	12,13,[15]	[13],15,17	17,19.3,[21]	[8],12,13	10,13
	15,16,[19]	12,13,[14]	28,31.2,[32.2]	11,15	X,[Y]	10,12
	20,[23],26	10,[11],12	7,[12],15,[20]	[18],26.2,[28.2],32.2	7,9	[8],9,11
	16,17,[18]	10	17	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

FGTRK2 — GlobalFiler™

15,15.3,[17.3]	[21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,[18],19.3	[8],12,13	10,13
15,16,[19]	12,13,[14],[15]	28,31.2	11,15	X,[Y]	10,12,[13]
20,[23],26			[18],26.2,32.2	[7],9	9,11
16,17,[18]	10			No Results	

G3LJVH — GlobalFiler™ (STRmix)

15,15.3,17.3	20,22,23	10,14	14,17,18	9,11,12	
9,10	12,13,15	13,15,17	17,19.3	12,13	10,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X	10,12
20,23,26			18,26.2,28.2,32.2	7,9	8,9,11
16,17,18	10			2	

G6VCBQ — PowerPlex® Fusion 6C

15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	12,13,15	13,15,17	17,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
16,17,18	10	17	19		

GD7U6A — PowerPlex® Fusion 6C

15,15.3,[17.3]	[20],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13	[13],15,17	17,19.3	[8],12,13	10,13
15,16	12,13	28,31.2,[32.2]	11,15	X,X,[Y]	10,12
20,26	10,12	7,[12],15	26.2,32.2	7,9	9,11
16,17,[18]	[10]	[17]	[19]		

GLLC2P — PowerPlex® Fusion 6C

15,15.3,17.3	20,22,23	10,14	14,17,18	9,11,12	
9,10	12,13,15	13,15,17	17,19.3,21	8,12,13	10,13
15,16,19	12,13,15	28,31.2	11,15	X,Y	10,12
20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
16,17	10	17	19		

H2UPWT — PowerPlex® Fusion 6C

15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
15,16,17,18	10	17	19		

H9REDW — GlobalFiler™

15,15.3,[17.3]	[20,21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	[11],12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
15,16,[19]	12,13,[14,15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
[15],16,17,[18]	[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

HF9XNJ — GlobalFiler™ (4e)

D1S1656/...	D2S1338/...	D2S441/...	D3S1358/...	D5S818/...	D6S1043/...
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

HWDKYH — PowerPlex® Fusion 5C (4e)

D1S1656/...	D2S1338/...	D2S441/...	D3S1358/...	D5S818/...	D6S1043/...
15,15.3	[21],22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15		7,9	9,11
16,17,[18]					

JBQABQ — GlobalFiler™ (4e)

D1S1656/...	D2S1338/...	D2S441/...	D3S1358/...	D5S818/...	D6S1043/...
15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
20,[23],26			[18],26.2,[28.2],32.2	7,9	9,11
16,17,[18]	10			2	

JCLV3V — PowerPlex® Fusion 6C (4e)

D1S1656/...	D2S1338/...	D2S441/...	D3S1358/...	D5S818/...	D6S1043/...
15,15.3,[17.3]	[20],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
15,16,[19]	12,13,[14]	28,31.2,[32.2]	11,15	X,Y	10,12
20,[23],26	10,[11],12	7,[12],15,[20]	[18],26.2,[28.2],32.2	7,9	[8],9,11
16,17,[18]	10	17	19		

JHVUYV — GlobalFiler™ (4e)

D1S1656/...	D2S1338/...	D2S441/...	D3S1358/...	D5S818/...	D6S1043/...
15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	15,17	17,[18],19.3,[21]	12,13	10,[12],13
15,16,[19]	12,13,[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
20,[23],26			[18],26.2,[28.2],32.2	7,9	9,11
16,17,[18]	[10]			[2]	

JU7JCQ — PowerPlex® Fusion 6C (4e)

D1S1656/...	D2S1338/...	D2S441/...	D3S1358/...	D5S818/...	D6S1043/...
15,15.3,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26	10,11,12	7,12,15,20	18,26.2,32.2	7,9	9,11
16,17,18		17	19		

JU7L2V — GlobalFiler™ (4e)

D1S1656/...	D2S1338/...	D2S441/...	D3S1358/...	D5S818/...	D6S1043/...
15,15.3,[17.3]	[20,21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	[11],12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
15,16,[19]	12,13,[14,15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
[15],16,17,[18]	[10]			[2]	

TABLE 1

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

Item 4e - STR Results

JVXHQP 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
	15,15.3,[17.3]	[20],[21],22,[23]	10,14	[14],17,18	9,11,[12]	
4e	9,10	12,13,[15]	[13],15,17	17,19.3,[21]	12,13	10,[12],13
	15,16	12,13,[15]	28,31.2,[32.2]	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17,[18]	10			No Results	

K6GBFQ PowerPlex® Fusion 6C

	15,15.3,16,17.3	21,22,23	10,14	14,17,18	9,11,12	
4e	9,10	12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14	28,31.2,32.2	11,15	X,Y	10,12,13
	20,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
	16,17,18		17	19		

K7Y3TG GlobalFiler™

	15,15.3	22,23	10,14	17,18	9,11,[12]	
4e	9,10	12,13	[13],15,17	17,19.3	[8],12,13	10,13
	15,16	12,13	28,31.2	11,15	X	10,12
	20,26			26.2,[28.2],32.2	7,9	9,11
	16,17	--			--	

KCF2YF PowerPlex® Fusion 5C

	15,15.3,[16]	[20],22,23	10,14	[14],17,18	9,11,[12]	
4e	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16,[19]	12,13	28,31.2,[32.2]	11,15	X,[Y]	10,12
	20,26	10,12	7,[12],15,[20]		7,9	9,11
	16,[17],[18]					

KDAR4V GlobalFiler™

	15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
4e	9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26			18,26.2,28.2,32.2	7,9	8,9,11
	15,16,17,18	10			2	

KJJKLL GlobalFiler™

	15,15.3,[16],[17.3]	[20],[21],22,23	10,14	14,17,18	9,11,[12]	
4e	9,10	[11],12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
	15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
	20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
	[15],16,17,[18]	[10]			[2]	

KPPG6L GlobalFiler™ (STRmix)

	15,15.3,[17.3]	[20],22,23	10,14	14,17,18	9,11,12	
4e	9,10	12,13,[15]	[13],15,17	17,19.3,[21]	[8],12,13	10,13
	15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
	20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
	16,17,[18]	[10]			[2]	

TABLE 1

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

Item 4e - STR Results

KREMMW — GlobalFiler™ (4e)

D1S1656 etc.					
15,15.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	11,12,13,15	13,15,17	17,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26			18,26.2,28.2,32.2	7,9	8,9,11
15,16,17,18	10			2	

KWN28G — GlobalFiler™ (4e)

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2,[32.2]	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	--			--	

LL2C2F — GlobalFiler™ (STRmix) (4e)

15,15.3	20,21,22,23	10,14	17,18	9,11,12	
9,10	12,13	15,17	17,19.3	8,12,13	10,13
15,16,19	12,13	28,31.2,32.2	11,15	X	10,12,13
20,23,26			18,26.2,32.2	7,9	9,11
16,17,18	10			2	

M8KQ2M — PowerPlex® Fusion (4e)

15,15.3,[17.3]	[20],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,13
15,16,[19]	12,13,[14]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
20,[23],26	10,[11],12	7,15		7,9	9,11
16,17,[18]	10				

MA93ZT — PowerPlex® Fusion 6C (STRmix) (4e)

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26	10,12	7,15	26.2,32.2	7,9	9,11
16,17					

MPFJMK — GlobalFiler™ (4e)

15,15.3,[17.3]	[20],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,13
15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
20,[23],26			26.2,[28.2],32.2	7,9	[8],9,11
16,17,[18]	10			2	

N74WYR — GlobalFiler™ (4e)

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	No Results			No Results	

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 4e - STR Results

NG2ULR — Identifiler® Plus

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e		20,21,22,23		14,17,18	9,11,12	
	9,10	11,12,13,15			8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2		X,Y	10,12,13
	20,23,26				7,9	8,9,11
	15,16,17,18					

NM8Q8D — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12
	20,26			26.2,32.2	7,9	9,11
	16,17	--			--	

NNNK9M — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
	9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X	10,12,13
	20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
	16,17,18	10	17	19		

P63JQP — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
	9,10	12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26			18,26.2,28.2,32.2	7,9	8,9,11
	15,16,17,18	10			2	

P884GB — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3	[20],22,23	10,14	[14],17,18	9,11,[12]	
	9,10	12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13,[15]	28,31.2	11,15	X,[Y]	10,12
	20,[23],26			26.2,32.2	7,9	[8],9,11
	16,17					

PBWFFG — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3,[17.3]	[20],22,23	10,14	[14],17,18	9,11,[12]	Not Tested
	9,10	12,13,[15]	[13],15,17	17,[18],19.3	[8],12,13	10,13
	15,16,[19]	12,13,[14]	28,31.2	11,15	X,[Y]	10,12
	20,[23],26	10,[11],12	7,15,[20]	[18],26.2,[28.2],32.2	7,9	[8],9,11
	16,17	10	17	No Results	Not Tested	

PFKXUR — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3	20,22,23	10,14	14,17,18	9,11,12	
	9,10	11,12,13,15	13,15,17	17,18,19.3	8,12,13	10,13
	15,16	12,13,14,15	28,31.2	11,15	X,Y	10,12,13
	20,23,26	10,11,12	7,15		7,9	9,11
	15,16,17,18	10				

TABLE 1

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

Item 4e - STR Results

PYFT7F — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
	9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
	15,16,17,18	10	17	19		

PYXF3C — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3,[17.3]	[20],22,23	10,14	[14],17,18	9,11	
	9,10	12,13,[15]	[13],15,17	17,19.3,[21]	12,13	10,[12],13
	15,16,[19]	12,13,[14,15]	28,31.2,[32.2]	11,15	X,[Y]	10,12
	20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
	[15],16,17	[10]			[2]	

Q2LDUF — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3,17.3	22,23	10,14	14,17,18	9,11,12	
	9,10	12,13,15	13,15,17	17,19.3,21	8,12,13	10,13
	15,16,19	12,13,14	28,31.2,32.2	11,15	X,Y	10,12
	20,23,26			18,26.2,28.2,32.2	7,9	8,9,11
	16,17,18	10			2	

QJG4NN — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3,[17.3]	[21],22,23	10,14	[14],17,18	9,11,[12]	
	9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
	15,16,[19]	12,13,[14,15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
	20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
	16,17,[18]	[10]			[2]	

QL9ZCH — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3	22,23	10,14	17,18	9,11	
	9,10	12,13,[15]	15,17	17,19.3	12,13	10,13
	15,16	12,13,[14]	28,31.2	11,15	X,X	10,12,[13]
	20,[23],26			26.2,32.2	7,9	9,11
	16,17	10			No Results	

QRYCCK — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
	9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
	15,16,17,18	10	17	19		

QWQG8A — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	15,15.3	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
	9,10	[11],12,13,[15]	[13],15,17	17,19.3	12,13	10,[12],13
	15,16	12,13,[14]	28,31.2,[32.2]	11,15	X,[Y]	10,12
	20,[23],26			[18],26.2,32.2	7,9	9,11
	[15],16,17,[18]	[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

REN9HA — GlobalFiler™ (STRmix) — 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
15,15.3	20,22,23	10,14	14,17,18	9,11,12	
9,10	12,13	13,15,17	17,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26			18,26.2,28.2,32.2	7,9	8,9,11
16,17,18	10			2	

RGTRNH — 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
15,15.3	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13	15,17	17,19.3	[8],12,13	10,[12],13
15,16	12,13,[14],[15]	28,31.2	11,15	X,[Y]	10,12,[13]
20,[23],26			26.2,32.2	7,9	9,11
16,17	10			2	

RPPR2P — PowerPlex® Fusion — 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
15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26	10,11,12	7,12,15,20		7,9	8,9,11
15,16,17,18	10				

TEMNE8 — 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
15,15.3,[17.3]	[20,21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	12,13	10,[12],13
15,16,[19]	12,13,[14,15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
[15],16,17				[2]	

THYWEC — PowerPlex® Fusion 6C — 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
15,15.3,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	9,11
16,17,18	10	17	19		

TMTQCD — PowerPlex® Fusion 6C — 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
15,15.3	22,23	10,14	17,18	9,11,12	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16,19	12,13	28,31.2	11,15	X	10,12
20,26	10,12	7,15	18,26.2,28.2,32.2	7,9	9,11
16,17	NR	NR	19		

TNLJAH — PowerPlex® Fusion 6C — 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
15,15.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	12,13,15	13,15,17	17,18,19.3	8,12,13	10,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,26	10,11,12	7,15	18,26.2,32.2	7,9	8,9,11
16,17,18		17			

TABLE 1

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

Item 4e - STR Results

TRAXZD — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3,16,17.3	20,22,23	10,14	14,17,18	9,11,12	
9,10	12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26	10,12	7,12,15,20	18,26.2,28.2,32.2	7,9	9,11
16,17,18	10	17	19		

TTFFY9 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	[11],12,13,[15]	[13],15,17	17,19.3	[8],12,13	10,[12],13
15,16,[19]	12,13,[14],[15]	28,31.2	11,15	X,[Y]	10,12
20,[23],26			[18],26.2,[28.2],32.2	7,9	9,11
[15],16,17	10			2	

TVA76M — Identifiler® Plus

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	22,23		17,18	9,11	
9,10	12,13			12,13	10,13
15,16	12,13	28,31.2		X,X	10,12
20,26				7,9	9,11
16,17					

TYAHZM — GlobalFiler™ Casework

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	NM			NM	

UBVAZG — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3,17.3	20,22,23	10,14	14,17,18	9,11,12	
9,10	12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,26	10,11,12	7,12,15	18,26.2,28.2,32.2	7,9	9,11
16,17,18	10				

UDM9EF — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3,[17.3]	[20],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,19.3	[8],12,13	10,13
15,16,[19]	12,13,[14]	28,31.2	11,15	X,[Y]	10,12
20,[23],26			26.2,32.2	7,9	9,11
16,17	10			2	

UEUMLL — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,15.3	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
20,[23],26			[18],26.2,32.2	7,9	[8],9,11
16,17,[18]	10			2	

TABLE 1

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

Item 4e - STR Results

UGGCY8 — GlobalFiler™ (STRmix) — 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
15,15.3	22,23	10,14	17,18	9,11,12	
9,10	12,13	13,15,17	17,19.3	12,13	10,12,13
15,16	12,13	28,31.2,32.2	11,15	X	10,12
20,23,26			26.2,32.2	7,9	8,9,11
16,17	10			2	

UGJWVM — PowerPlex® Fusion — Item 4e

15,15.3,16	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	12,13,15	15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26	10,11,12	7,12,15,20		7,9	8,9,11
15,16,17,18	10				

UK7BLH — PowerPlex® Fusion 6C — Item 4e

15,15.3,16	20,22,23	10,14	14,17,18	9,11,12	
9,10	12,13	15,17	17,19.3	8,12,13	10,12,13
15,16	12,13	28,31.2,32.2	11,15	X,Y	10,12
20,26	10,12	7,15	18,26.2,28.2,32.2	7,9	8,9,11
16,17,18		17			

ULGD9G — PowerPlex® Fusion 6C — Item 4e

15,15.3,17.3	20,22,23	10,14	14,17,18	9,11,12	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,Y	10,12
20,26	10,11,12	7,15,20	26.2,32.2	7,9	9,11
16,17					

UPGN4G — PowerPlex® Fusion 6C (STRmix) — Item 4e

15,15.3,16,17.3	20,22,23	10,14	14,17,18	9,11,12	
9,10	12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,13
15,16,19	12,13	28,31.2,32.2	11,15	X	10,12,13
20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
16,17,18		17			

UR44UC — GlobalFiler™ (STRmix v2.5.11) — Item 4e

15,15.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	12,13,15	15,17	17,19.3	8,12,13	10,13
15,16,19	12,13,14,15	28,31.2	11,15	X,Y	10,12,13
20,23,26			26.2,28.2,32.2	7,9	8,9,11
15,16,17,18	10			2	

UV4C28 — GlobalFiler™ — Item 4e

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	--			--	

TABLE 1

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

Item 4e - STR Results

UXVBE7   GlobalFiler™ (STRmix)

4e					
15,15.3,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	12,13,15	13,15,17	17,19.3	8,12,13	10,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12
20,26			26.2,28.2,32.2	7,9	8,9,11
16,17,18	10			2	

VYWVFB   PowerPlex® Fusion 6C (STRmix)

4e					
15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
15,16,17,18	10	17	19		

W2HYN9   PowerPlex® Fusion

4e					
15,15.3,16	21,22,23	BST	17,18	9,11	
9,10	11,12,13	15,17	17,19.3	12,13	10,12,13
15,16	12,13	28,[31.2]	11,15	X,X	10,12
20,26	BST	BST		BST	9,11
16,17	ND				

W96PA4   GlobalFiler™

4e					
15,15.3,[17.3]	[20],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,19.3	[8],12,13	10,13
15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12
20,[23],26			[18],26.2,[28.2],32.2	7,9	9,11
16,17,[18]	[10]			[2]	

W9GLF9   PowerPlex® Fusion 6C

4e					
15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26	10,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
16,17,18	10	17	19		

WPR82J   Identifiler® Plus

4e					
	[20],[21],22,23		[14],17,18	9,11,[12]	
9,10	12,13,[15]			[8],12,13	10,[12],13
15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]		X	10,12
20,[23],26				7,9	[8],9,11
[15],16,17,[18]					

WUJA84   GlobalFiler™

4e					
15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

TABLE 1

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

Item 4e - STR Results

WW9L7A — GlobalFiler™ (STRmix)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,15.3,17.3	20,22,23	10,14	14,17,18	9,11,12	
9,10	12,13,15	13,15,17	17,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26			18,19,26.2,28.2,32.2	7,9	8,9,11
16,17,18	10			2	

WZMEW3 — GlobalFiler™ (STRmix)

15,15.3,[17.3]	[20],22,23	10,14	14,17,18	9,11,12	
9,10	12,13,[15]	[13],15,17	17,19.3,[21]	[8],12,13	10,[12],13
15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
16,17,[18]	[10]			[2]	

X42DR9 — PowerPlex® Fusion 6C

15,15.3,17.3	20,22,23	10,14	14,17,18	9,11,12	N/A
9,10	12,13,15	13,15,17	17,19.3,21	8,12,13	10,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
16,17	10	17	19	N/A	

XARLC3 — GlobalFiler™

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			26.2,32.2	7,9	9,11
16,17					

XFXGV3 — GlobalFiler™

15,15.3,[17.3]	[20,21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,19.3,[21]	[8],12,13	10,[12],13
15,16	12,13	28,31.2	11,15	X	10,12
20,26			[18],26.2,32.2	7,9	[8],9,11
16,17,[18]	[10]			[2]	

XPKHCC — PowerPlex® Fusion 6C

15,15.3,17.3	22,23	10,14	14,17,18	9,11,12	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13,15	28,31.2	11,15	X,Y	10,12,13
20,26	10,12	7,12,15	18,26.2,32.2	7,9	9,11
16,17					

XPMA4T — PowerPlex® ESX 16 Fast

15,15.3	22,23	10,14	17,18		
	12,13	15,17	17,19.3		10,13
15,16	12,13	28,31.2	11,15	X	
20,26				7,9	
16,17					

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

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
XUEFZ4 GlobalFiler™	15,15.3,[17.3]	22,23	10,14	[14],17,18	9,11,[12]	
4e	9,10	[11],12,13	15,17	17,19.3	12,13	10,13
	15,16	12,13	28,31.2	11,15	X,X	10,12,[13]
	20,[23],26			[18],26.2,32.2	7,9	9,11
	[15],16,17				2	
XYVKXD PowerPlex® Fusion 6C	15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
4e	9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
	16,17,18	10	17	19		
XZ23V9 PowerPlex® Fusion 6C	15,15.3,17.3	20,22,23	10,14	14,17,18	9,11,12	
4e	9,10	12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,15	28,31.2,32.2	11,15	X,Y	10,12
	20,23,26	10,11,12	7,12,15,20	18,26.2,32.2	7,9	8,9,11
	16,17,18	10	17	19		
Y3QV7H PowerPlex® Fusion	15,15.3,17.3	21,22,23	10,14	14,17,18	9,11	
4e	9,10	12,13,15	15,17	17,18,19.3,21	12,13	10,12,13
	15,16	12,13,14	28,31.2,32.2	11,15	X,Y	10,12
	20,26	10,11,12	7,15		7,9	9,11
	15,16,17,18	10				
YDL2ZG GlobalFiler™	15,15.3,[17.3]	[20],22,23	10,14	[14],17,18	9,11,[12]	
4e	9,10	12,13,[15]	[13],15,17	17,19.3	[8],12,13	10,[12],13
	15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12,[13]
	20,[23],26			[18],26.2,32.2	7,9	9,11
	16,17,[18]	10			2	
YHGVWH GlobalFiler™	15,15.3	20,22,23	10,14	14,17,18	9,11,12	
4e	9,10	12,13,15	15,17	17,19.3	12,13	10,13
	15,16,19	12,13	28,31.2,32.2	11,15	X,Y	10,12,13
	20,26			18,26.2,28.2,32.2	7,9	8,9,11
	16,17,18	10			2	
YT3Y6G GlobalFiler™	15,15.3	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
4e	9,10	12,13,[15]	[13],15,17	17,[18],19.3,[21]	[8],12,13	10,[12],13
	15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,[Y]	10,12
	20,[23],26			[18],26.2,[28.2],32.2	7,9	9,11
	16,17,[18]	10			2	

TABLE 1

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

Item 4e - STR Results

YVPNH3 GlobalFiler™ (STRmix)

15,15.3,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	11,12,13,15	13,15,17	17,19.3,21	8,12,13	10,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26			18,26.2,28.2,32.2	7,9	8,9,11
16,17,18	10			2	

YW3BZG GlobalFiler™

15,15.3,[17.3]	[20],[21],22,23	10,14	[14],17,18	9,11,[12]	
9,10	12,13,[15]	[13],15,17	17,19.3	[8],12,13	10,[12],13
15,16,[19]	12,13,[14],[15]	28,31.2,[32.2]	11,15	X,X	10,12
20,[23],26			[18],26.2,[28.2],32.2	7,9	[8],9,11
[15],16,17,[18]	No Results			2	

YYNTH2 GlobalFiler™

15,15.3	(20,21),22,23	10,14	(14),17,18	9,11,(12)	
9,10	12,13	15,17	17,19.3	(8),12,13	10,(12),13
15,16	12,13	28,31.2	11,15	X,X,(Y)	10,12
20,(23),26			26.2,32.2	7,9	9,11
16,17	10			2	

YYNYE3 GlobalFiler™ (STRmix)

15,15.3,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	12,13,15	13,15,17	17,19.3,21	8,12,13	10,13
15,16	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26			18,26.2,28.2,32.2	7,9	9,11
16,17				2	

YZZPN7 GlobalFiler™ (STRmix)

15,15.3,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
20,23,26			18,26.2,28.2,32.2	7,9	9,11
15,16,17,18	10			2	

Z7GK42 GlobalFiler™

15,15.3	22,23	10,14	17,18	9,11	
9,10	12,13	15,17	17,19.3	12,13	10,13
15,16	12,13	28,31.2	11,15	X,X	10,12
20,26			26.2,32.2	7,9	9,11
16,17	--			--	

Z7HGCB PowerPlex® Fusion 6C

15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12
20,23,26	10,11,12	7,15,20	18,26.2,28.2,32.2	7,9	8,9,11
15,16,17,18	10	17			

TABLE 1

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

Item 4e - STR Results

ZA6W37	PowerPlex® Fusion 6C					
	15,15.3,17.3	20,22,23	10,14	14,17,18	9,11,12	
4e	9,10	12,13,15	13,15,17	17,19.3,21	8,12,13	10,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12
	20,26	10,11,12	7,12,15	18,26.2,32.2	7,9	8,9,11
	16,17	10	17	NR		
ZBXPZB	PowerPlex® Fusion 6C					
	15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	9,11,12	
4e	9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26	10,11,12	7,12,15,20	18,26.2,28.2,32.2	7,9	8,9,11
	16,17,18	10	17	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 4sp - STR Results

227TCE GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

23E44C GlobalFiler™

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

2CP6PD GlobalFiler™

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

2EVQFX GlobalFiler™ (STRmix)

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

2F39C9 PowerPlex® Fusion 6C

16,17.3	20,21	10,14	14,17,18	9,12	
9,10	11,15	13,15,17	18,21	8,12,13	10,12
15,19	14,15	28,32.2	11,15	X,Y	10,13
20,23	11	7,12,20	18,26.2,28.2,32.2	9	8,11
15,18	10	17	19		

2FQB84 PowerPlex® Fusion

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20		9,9	8,11
15,18	10				

2HV2BX GlobalFiler™ (STRmix)

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

TABLE 1

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

Item 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
2JPM34 PowerPlex® Fusion						
4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20		9,9	8,11
	15,18	10				
2UJ4R6 PowerPlex® Fusion 6C						
4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		
2WBZGY GlobalFiler™						
4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	
2YHGDA PowerPlex® Fusion 6C						
4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		
36LL38 GlobalFiler™						
4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	
37G7UD GlobalFiler™						
4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	
3CL3FY GlobalFiler™						
4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

TABLE 1

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

Item 4sp - STR Results

3P9ABE   PowerPlex® Fusion

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

4sp

3QFPJ7   GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

4sp

3RWNYN   PowerPlex® Fusion 6C

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

4sp

3VBJG8   GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

4sp

3W769C   GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

4sp

3YCA3Z   GlobalFiler™ (STRmix)

15.3,16,17.3	20,21	10,14	14,18	12	
9,10	11,12,13,15	13,17	18,21	8,12,13	10,12,13
15,19	14,15	28,31.2,32.2	15	X,Y	10,12,13
20,23,26			18,28.2	9	8,11
15,18	10			2	

4sp

48KECW   GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

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

4ABKU9 — PowerPlex® Fusion 6C — 4sp

16,17.3	20,21	14	14	12	
9,10	11,15	13,15,17	18,21	8,12	10,12,13
15,19	12,14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20	18,28.2	9	8,11
15,18	10	17	19		

4BLKQ3 — PowerPlex® Fusion 6C — 4sp

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

4C3J97 — GlobalFiler™ — 4sp

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,[16],18	10			2	

4JD36B — GlobalFiler™ — 4sp

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

4L7TEV — GlobalFiler™ — 4sp

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

4NU6E2 — PowerPlex® Fusion — 4sp

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20		9,9	8,11
15,18	10				

69X9RW — GlobalFiler™ — 4sp

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	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 4sp - STR Results

6A9C3Z — 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
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20		9,9	8,11
15,18	10				

6D449C — GlobalFiler™ — 4sp

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

6R8EWX — PowerPlex® Fusion 6C (STRmix) — 4sp

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20	18,28.2	9	8,11
15,18	10	17	19		

7AZTT3 — GlobalFiler™ — 4sp

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

7EUMP4 — PowerPlex® Fusion 6c — 4sp

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

7HWCBW — GlobalFiler™ (STRmix) — 4sp

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

7JBUD3 — GlobalFiler™ — 4sp

16,17.3	20,21	14,14	14,14	12,12	Not Tested
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	Not Tested	Not Tested	18,28.2	9,9	8,11
15,18	10	Not Tested	Not Tested	2	

TABLE 1

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

7KHAK9   PowerPlex® Fusion 6C, 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
4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20	18,28.2	9	8,11
	15,18	10	17	19	2	

7MNU99   GlobalFiler™

4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,[16],19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	

83W7D8   GlobalFiler™

4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	

899UE4   PowerPlex® Fusion 6C

4sp	16,17.3	20,21	14	14,17,18	12	
	9,10	11,15	13,15,17	18,21	8,12	10,12
	15,19	12,14,15	28,31.2,32.2	15	X,Y	10,12,13
	20,23	11	12,20	18,26.2,28.2	7,9	8,11
	15,16,18	10	17	19		

8C88Y9   GlobalFiler™

4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	

8G26NY   PowerPlex® Fusion 6C

4sp	16,17.3	20,21	14,14	14,14	12,12	Not Tested
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19	Not Tested	

8LT9G3   GlobalFiler™

4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	

TABLE 1

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

Item 4sp - STR Results

8M2LWJ GlobalFiler™ (STRmix)

Item						
4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	

8M7Z8Y PowerPlex® Fusion 6C

Item						
4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

8NYU64 PowerPlex® Fusion 6C

Item						
4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

8WUYY4 GlobalFiler™ (TrueAllele)

Item						
4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

8YKXD3 GlobalFiler™

Item						
4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	

9268Z9 PowerPlex® Fusion

Item						
4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20		9	8,11
	15,18	10				

9GULVT GlobalFiler™

Item						
4sp	16,17.3	20,21,[22,23]	14,14	14,14	[9],12,12	
	9,10	11,[12,13],15	13,[15],17	18,21	8,12,[13]	10,12,[13]
	15,[16],19	14,15,[16.2]	28,[31.2],32.2	15,15	X,Y	10,[12],13
	20,23,[26]			18,[26.2],28.2	[7],9,9	8,11
	15,[16,17],18	10			2	

TABLE 1

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

Item 4sp - STR Results

9KVKDX — PowerPlex® Fusion 6c

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,12,13
	20,23	11	12,20	18,28.2	9	8,11
	15,18	10	17	19		

9MMG3R — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

9QXRT2 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	[7],9	8,11
	15,18	10			2	

9XGXP8 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	16,17.3	20,21	[10],14	14,14	12,12	Not Tested
	9,10	11,[12],[13],15	13,17	18,21	8,12	10,12
	15,19	14,15	28,[31.2],32.2	15,15	X,Y	10,13
	20,23	Not Tested	Not Tested	18,28.2	9,9	8,11
	15,18	10	Not Tested	Not Tested	2	

A37UR4 — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20		9	8,11
	15,18	10				

A9E3BT — PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	15,15.3,16,17.3	20,21,22,23	10,14	14,17,18	11,12	
	9,10	11,12,13,15	13,15,17	17,18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23	11	7,12,20	18,26.2,28.2	9	8,9,11
	15,16,17,18	10	17	19		

ACWFX2 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,[12],15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	

TABLE 1

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

Item 4sp - STR Results

AEKRW8 — PowerPlex® Fusion (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

AXEMAV — PowerPlex® Fusion 6C (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

BBH9AY — PowerPlex® Fusion 6C (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

BD8EUW — PowerPlex® Fusion 6C (STRmix) (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20	18,28.2	9	8,11
15,18	10	17	19		

BK4ARU — PowerPlex® Fusion (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20		9,9	8,11
15,18	10				

BLF9M4 — PowerPlex® Fusion 5C (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

BQB3LQ — GlobalFiler™ (4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

TABLE 1

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

Item 4sp - STR Results

BQUNEF   Identifiler® Plus

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	20,21		14,14	12,12	
9,10	11,15			8,12	10,12
15,19	14,15	28,32.2		X,Y	10,13
20,23				9,9	8,11
15,18					

BT3Y9Y   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

BW3A6Y   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

BYQL44   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

BZHHTX   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

C4CZYP   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

CEZP6P   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

TABLE 1

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

Item 4sp - STR Results

CFUFB4	Identifiler® Plus					
		20,21		14	12	
4sp	9,10	11,15			8,12	10,12
	15,19	14,15	28,32.2		X,Y	10,13
	20,23				9	8,11
	15,18					
CNLTCP	GlobalFiler™					
	16,17.3	20,21	14,14	14,14	12,12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	
CUQUBX	GlobalFiler™					
	16,17.3	20,21	14,14	14,14	12,12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	
CVKF24	GlobalFiler™					
	16,17.3	20,21	14,14	14,14	12,12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	
CWVHQM	GlobalFiler™					
	16,17.3	20,21	14	14	12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	
CYJUPT	PowerPlex® Fusion					
	16,17.3	20,21	14,14	14,14	12,12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20		9,9	8,11
	15,18	10				
D27TFW	PowerPlex® Fusion 6C					
	16,17.3	20,21	14,14	14,14	12,12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	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 4sp - STR Results

D7ZP6M — 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
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

DPTTJ3 — GlobalFiler™ — 4sp

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

DQKN9W — PowerPlex® Fusion 6C — 4sp

16,17.3	20,21	14	14,18	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	12,14,15	28,32.2	15	X,Y	10,12,13
20,23	11	12,20	18,28.2	9	8,11
15,16,18	10	17	19		

E6Z97V — PowerPlex® Fusion 6C — 4sp

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

EJFGXL — GlobalFiler™ (STRmix) — 4sp

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

EM6GKX — GlobalFiler™ — 4sp

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

ERWN6R — PowerPlex® Fusion 6C — 4sp

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	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 4sp - STR Results

F432XC — PowerPlex® 21 (STRmix version 2.7)   (4sp)

16,17.3	20,21		14,14	12,12	12,12
9,10	11,15		18,21	8,12	10,12
15,19	14,15	28,32.2		X,Y	10,13
20,23	11,11	12,20		9,9	8,11
15,18					

F82CTC — GlobalFiler™   (4sp)

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

F8M8WY — GlobalFiler™   (4sp)

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

F8N68U — PowerPlex® Fusion 6C   (4sp)

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

F9E4LT — GlobalFiler™   (4sp)

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

FEHA2V — GlobalFiler™   (4sp)

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

FG99FU — PowerPlex® Fusion 6C   (4sp)

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	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 4sp - STR Results

FGTRK2 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
4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	

G3LJVH GlobalFiler™ (STRmix)

4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

G6VCBQ PowerPlex® Fusion 6C

4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	12,14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

GD7U6A PowerPlex® Fusion 6C

4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

GLLC2P PowerPlex® Fusion 6C

4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

H2UPWT PowerPlex® Fusion 6C

4sp	16,17.3	20,21	14	14,18	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20	18,28.2	9	8,11
	15,18	10	17	19		

H9REDW GlobalFiler™

4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

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 4sp - STR Results

HF9XNJ GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

HWDKYH PowerPlex® Fusion 5C

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	[8]	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

JBQABQ GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

JCLV3V PowerPlex® Fusion 6C

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

JHVUYV GlobalFiler™

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

JU7JCQ PowerPlex® Fusion 6C

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

JU7L2V GlobalFiler™

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

TABLE 1

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

Item 4sp - STR Results

JVXHQP GlobalFiler™

	D1S1656 / etc					
4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	

K6GBFQ PowerPlex® Fusion 6C

4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,15,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,12,13
	20,23	11	12,20	18,28.2	9	8,11
	15,18	10	17	19		

K7Y3TG GlobalFiler™

4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	

KCF2YF PowerPlex® Fusion 5C

4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20		9	8,11
	15,18	10				

KDAR4V GlobalFiler™

4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

KJJKLL GlobalFiler™

4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

KPPG6L GlobalFiler™ (STRmix)

4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

TABLE 1

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

Item 4sp - STR Results

KREMMW	GlobalFiler™					
	16,17.3	20,21	14	14	12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	
KWN28G	GlobalFiler™					
	16,17.3	20,21,[23]	14	14	12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,[26.2],28.2,[32.2]	9	8,11
	15,18	10			2	
LL2C2F	GlobalFiler™ (STRmix)					
	16,17.3	20,21	14	14	12	
4sp	9,10	11,15	13,15,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	
M8KQ2M	PowerPlex® Fusion					
	16,17.3	20,21	14,14	14,14	12,12	
4sp	9,10	11,[12],15	13,17	18,21	8,12	10,12
	15,19	[12],14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20		9,9	8,11
	15,18	10				
MA93ZT	PowerPlex® Fusion 6C (STRMix)					
	16,17.3	20,21	14,14	14,14	12,12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		
MPFJMK	GlobalFiler™					
	16,17.3	20,21	14,14	14,14	12,12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,[16],18	10			2	
N74WYR	GlobalFiler™					
	[15],[15.3],16,17.3	20,21,[22],[23]	[10],14	14,[17],[18]	[9],12	
4sp	9,10	11,[12],[13],15	13,[15],17	18,21	8,12,[13]	10,12,[13]
	15,[16],19	[12],[13],14,15	28,[31.2],32.2	[11],15	X,Y	10,[12],13
	20,23,[26]			18,[26.2],28.2,[32.2]	[7],9	8,[9],11
	15,[16],[17],18	10			2	

TABLE 1

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

Item 4sp - STR Results

NG2ULR   Identifiler® Plus

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	20,21		14	12	
9,10	11,15			8,12	10,12
15,19	14,15	28,32.2		X,Y	10,13
20,23				9	8,11
15,18					

NM8Q8D   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

NNNK9M   PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,15,17	18,21	8,12	10,12
15,16,19	12,14,15	28,32.2	15	X,Y	10,13
20,23	11	7,12,20	18,28.2	9	8,11
15,18	10	17	19		

P63JQP   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

P884GB   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

PBWFFG   PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	Not Tested
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19	Not Tested	

PFKXUR   PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	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

PYFT7F — PowerPlex® Fusion 6C

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

PYXF3C — GlobalFiler™

16,17.3	20,21,[22,23]	[10],14	14,[18]	[9],12	
9,10	11,[12,13],15	13,17	18,21	8,12	10,12,[13]
15,19	[13],14,15	28,[31.2],32.2	15	X,Y	10,[12],13
20,23			18,[26.2],28.2	[7],9	8,11
15,[16],18	10			2	

Q2LDUF — GlobalFiler™ (STRmix)

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

QJG4NN — GlobalFiler™

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

QL9ZCH — GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

QRYCCK — PowerPlex® Fusion 6C

16,17.3	20,21	14	14	12	
9,10	11,13,15	13,15,17	18,21	8,12	10,12
15,19	12,14,15	28,32.2	11,15	X,Y	10,12,13
20,23	11	12,20	18,28.2	7,9	8,11
15,18	10	17	19		

QWQG8A — GlobalFiler™

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,[12],13
20,23			18,28.2	9	8,11
15,18	10			2	

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 4sp - STR Results

REN9HA — GlobalFiler™ (STRmix)

15,16,17.3	20,21,23	10,14	14,17,18	9,12	
9,10	11,12,13,15	13,16,17	18,21	8,12	10,12
15,16,19	12,14,15	28,32.2	11,15	X,Y	10,12,13
20,23,26			18,26.2,28.2	7,9	8,9,11
15,18	10			2	

RGTRNH — GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

RPPR2P — PowerPlex® Fusion

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

TEMNE8 — GlobalFiler™

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

THYWEC — PowerPlex® Fusion 6C

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

TMTQCD — PowerPlex® Fusion 6C

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

TNLJAH — PowerPlex® Fusion 6C

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	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 4sp - STR Results

TRAXZD — PowerPlex® Fusion 6C (Item 4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

TTFFY9 — GlobalFiler™ (Item 4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

TVA76M — Identifiler® Plus (Item 4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	20,21		14	12	
9,10	11,15			8,12	10,12
15,19	14,15	28,32.2		X,Y	10,13
20,23				9	8,11
15,18					

TYAHZM — GlobalFiler™ Casework (Item 4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

UBVAZG — PowerPlex® Fusion 6C (Item 4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

UDM9EF — GlobalFiler™ (Item 4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

UEUMLL — GlobalFiler™ (Item 4sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

TABLE 1

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

Item 4sp - STR Results

UGGCY8	GlobalFiler™ (STRmix)					
	16,17.3	20,21,22	14	14,17	11,12	
4sp	9,10	11,12,15	13,17	18,21	8,12	10,12,13
	15,16,19	12,14,15	28,31.2,32.2	11,15	X,Y	10,12,13
	20,23,26			18,28.2	7,9	8,9,11
	15,18	10			2	
UGJWVM	PowerPlex® Fusion					
	16,17.3	20,21	14	14	12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20		9	8,11
	15,18	10				
UK7BLH	PowerPlex® Fusion 6C					
	16,17.3	20,21	14	14	12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,31.2,32.2	15	X,Y	10,12,13
	20,23	11	12,20	18,28.2	9	8,11
	15,18	10	17	19		
ULGD9G	PowerPlex® Fusion 6C					
	15.3,16,17.3	20,21,22,23	10,14	14,17,18	12	
4sp	9,10	11,12,13,15	13,15,17	18,19.3,21	8,12,13	10,12,13
	15,16,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,13
	20,23	11	7,12,15,20	18,26.2,28.2,32.2	7,9	8,11
	15,16,18	10	17	19		
UPGN4G	PowerPlex® Fusion 6C (STRmix)					
	16,17.3	20,21	14	14	12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20	18,28.2	9	8,11
	15,18	10	17	19		
UR44UC	GlobalFiler™ (STRmix v2.5.11)					
	16,17.3	20,21	14	14	12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	
UV4C28	GlobalFiler™					
	[15],16,17.3	20,21	14	14	12	
4sp	9,10	11,[12],15	13,17	18,21	8,12	10,12
	15,19	14,15	28,[31.2],32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,[17],18	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 4sp - STR Results

UXVBE7 — GlobalFiler™ (STRmix)

Item						
4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

VYWVFB — PowerPlex® Fusion 6C (STRmix)

Item						
4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20	18,28.2	9	8,11
	15,18	10	17	19		

W2HYN9 — PowerPlex® Fusion

Item						
4sp	16,17.3	20,21	14,14	14,14	12,12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20		9,9	8,11
	15,18	10				

W96PA4 — GlobalFiler™

Item						
4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

W9GLF9 — PowerPlex® Fusion 6C

Item						
4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,15,17	18,21	8,12	10,12
	15,19	12,14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20	18,28.2	9	8,11
	15,18	10	17	19		

WPR82J — Identifiler® Plus

Item						
4sp		20,21		14	12	
	9,10	11,15			8,12	10,12
	15,19	14,15	28,32.2		X,Y	10,13
	20,23				9	8,11
	15,18					

WUJA84 — GlobalFiler™

Item						
4sp	16,17.3	20,21	14	14	12	
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

TABLE 1

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

Item 4sp - STR Results

WW9L7A	GlobalFiler™ (STRmix)					
	16,17.3	20,21	14	14	12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

WZMEW3	GlobalFiler™ (STRmix)					
	16,17.3	20,21	14	14	12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

X42DR9	PowerPlex® Fusion 6C					
	16,17.3	20,21	14,14	14,14	12,12	N/A
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19	N/A	

XARLC3	GlobalFiler™					
	16,17.3	20,21	14	14	12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

XFXGV3	GlobalFiler™					
	16,17.3	20,21	14	14	12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

XPKHCC	PowerPlex® Fusion 6C					
	16,17.3	20,21,23	14	14	12	
4sp	9,10	11,12,13,15	13,15,17	18,21	8,12,13	10,12
	15,19	12,13,14,15	28,31.2,32.2	11,15	X,Y	10,13
	20,23	11	12,20	18,26.2,28.2	7,9	8,9,11
	15,18	10	17	19		

XPMA4T	PowerPlex® ESX 16 Fast					
	16,17.3	20,21	14	14		
4sp		11,15	13,17	18,21		
	15,19	14,15	28,32.2	15	X,Y	
	20,23				9	
	15,18					

TABLE 1

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

Item 4sp - STR Results

XUEFZ4 GlobalFiler™

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

XYVKXD PowerPlex® Fusion 6C

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

XZ23V9 PowerPlex® Fusion 6C

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

Y3QV7H PowerPlex® Fusion

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

YDL2ZG GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

YHGVWH GlobalFiler™

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

YT3Y6G GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

TABLE 1

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

Item 4sp - STR Results

YVPNH3 GlobalFiler™ (STRmix)

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

YW3BZG GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

YYNTH2 GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

YYNYE3 GlobalFiler™ (STRmix)

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

YZZPN7 GlobalFiler™ (STRmix)

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

Z7GK42 GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

Z7HGCB PowerPlex® Fusion 6C

16,17.3	20,21	10,14	14,17	12	
9,10	11,13,15	13,15,17	18,21	8,12,13	10,12
15,16,19	14,15	28,31.2,32.2	15	X,Y	10,12,13
20,23	11	7,12,20	18,26.2,28.2	9	8,11
15,16,18	10	17	19		

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

ZA6W37	PowerPlex® Fusion 6C					
	16,17.3	20,21	14,14	14,14	12,12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		

ZBXPZB	PowerPlex® Fusion 6C					
	16,17.3	20,21	14	14	12	
4sp	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	11,15	X,Y	10,13
	20,23	11	12,20	18,28.2	9	8,11
	15,17,18	10	17	19		

YSTR Amplification Kit(s) & Results

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 1 - YSTR Results

CFUFB4	Yfiler™								
		-	-	-	-	-	-	-	-
1	-	-	-	-		-	-		
						-			-

WPR82J	Yfiler™								
1									

TABLE 2

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

Item 2 - YSTR Results

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
23E44C — Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
2CP6PD — Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
2F39C9 — Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
						21			11
2FQB84 — PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
		11	12	17	19	21	21	11	11
2JPM34 — PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
		11	12	17	19	21	21	11	11
2UJ4R6 — Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
						21			11
2WBZGY — Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
						21			11
2YHGDA — Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
						21			11
39YLXD — Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
3CL3FY — PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
		11	12	17	19	21	21	11	11
3P9ABE — Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
3W769C — PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
		11	12	17	19	21	21	11	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									
3YCA3Z Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
48KECW PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
	11	12		17	19		21	11	11
4ABKU9 Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11
4BLKQ3 Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11
4JD36B PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
	11	12		17	19		21	11	11
4NU6E2 PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
	11	12		17	19		21	11	11
6A9C3Z PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
	11	12		17	19		21	11	11
7HWCBW Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
7KHAK9 PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
	11	12		17	19		21	11	11
7NGKG9 PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
	11	12		17	19		21	11	11
83W7D8 PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
	11	12		17	19		21	11	11
899UE4 Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11

TABLE 2

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

Item 2 - YSTR Results

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
8C88Y9 PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
	11	12	17	19			21	11	11
8M2LWJ Yfiler™ Plus									
	40,40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
8NYU64 Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11
8WUYY4 Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
9268Z9 Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
9KVKDX Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11
9MMG3R Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11
9QXRT2 PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
	11	12	17	19			21	11	11
A37UR4 Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
ACWFX2 PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
	11	12	17	19			21	11	11
AEKRW8 Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
BBH9AY Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11

TABLE 2

WebCode / Item / 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 2 - YSTR Results

WebCode / Item / 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
BD8EUW — Yfiler™ Plus — 2	40	15	14,17	13	29	23	10	11	12
	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
BK4ARU — PowerPlex® Y 23 — 2		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		22
	11	12		17	19		21	11	11
BT3Y9Y — PowerPlex® Y 23 — 2		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		22
	11	12		17	19		21	11	11
BYQL44 — Yfiler™ Plus — 2	40	15	14,17	13	29	23	10	11	12
	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
CEZP6P — PowerPlex® Y 23 — 2		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		22
	11	12		17	19		21	11	11
CFUFB4 — Yfiler™ — 2		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		
							21		11
CNLTCP — PowerPlex® Y 23 — 2		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		22
	11	12		17	19		21	11	11
CWVHQM — Yfiler™ Plus — 2	40	15	14,17	13	29	23	10	11	12
	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
CYJUPT — PowerPlex® Y 23 — 2		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		22
	11	12		17	19		21	11	11
D7ZP6M — Yfiler™ Plus — 2	40	15	14,17	13	29	23	10	11	12
	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
DPTTJ3 — Yfiler™ — 2		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		
							21		11
DQKN9W — Yfiler™ — 2		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		
							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

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
E6Z97V — Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
						21			11
EJFGXL — Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
F8M8WY — Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
F8N68U — Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
						21			11
FG99FU — PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
		11	12	17	19	21	21	11	11
G6VCBQ — Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
						21			11
GLLC2P — Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
						21			11
H2UPWT — Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
						21			11
H9REDW — Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
JHVUYV — Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
JTNHLH — Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
JU7JCQ — Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
						21			11

TABLE 2

Item 2 - 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
JU7L2V	Yfiler™ Plus								
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
JVXHQP	PowerPlex® Y 23								
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
	11	12		17	19		21	11	11
K6GBFQ	Yfiler™								
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11
KDAR4V	Yfiler™								
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11
KREMMW	Yfiler™								
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11
LL2C2F	Yfiler™ Plus								
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
MA93ZT	PowerPlex® Y 23								
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
	11	12		17	19		21	11	11
NG2ULR	Yfiler™								
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11
NNNK9M	Yfiler™								
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11
P63JQP	Yfiler™ Plus								
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
PFKXUR	Yfiler™ Plus								
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
Q2LDUF	PowerPlex® Y 23								
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
	11	12		17	19		21	11	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

QJG4NN — Yfiler™ Plus

Item									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

QRYCCK — Yfiler™

Item									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11

REN9HA — Yfiler™ Plus

Item									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

RPPR2P — Yfiler™ Plus

Item									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

TMTQCD — Yfiler™

Item									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11

TNLJAH — Yfiler™

Item									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11

TTFFY9 — PowerPlex® Y 23

Item									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
		11	12	17	19		21	11	11

TVA76M — Yfiler™

Item									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11

TYAHZM — Yfiler™

Item									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11

UBVAZG — Yfiler™

Item									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11

UGGCY8 — Yfiler™ Plus

Item									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

UGJWVM — Yfiler™ Plus

Item									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

TABLE 2

Item 2 - YSTR Results

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
UK7BLH	Yfiler™								
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11
UPGN4G	PowerPlex® Y 23								
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
		11	12	17	19		21	11	11
VYWVFB	Yfiler™ Plus								
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
W2HYN9	PowerPlex® Y 23								
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
		11	12	17	19		21	11	11
W96PA4	Yfiler™ Plus								
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
WPR82J	Yfiler™								
2									
X42DR9	Yfiler™								
	N/A	15	14,17	13	29	23	10	11	12
2	15	9	12	21	N/A	16	16	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	21	N/A	11
XARLC3	Yfiler™								
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11
XFXGV3	Yfiler™ Plus								
	40,40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
XPKHCC	Yfiler™								
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11
XUEFZ4	PowerPlex® Y 23								
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
		11	12	17	19		21	11	11
XYVKXD	Yfiler™								
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							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	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
XZ23V9 — Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11
Y3QV7H — Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
Y4GUKG — PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
		11	12	17	19		21	11	11
YT3Y6G — PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
		11	12	17	19		21	11	11
YVPNH3 — Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
YYNTH2 — PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		22
		11	12	17	19		21	11	11
YYNYE3 — Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
2	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
Z7HGCB — Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11
ZA6W37 — Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							21		11
ZBXPZB — Yfiler™									
		15	14,17	13	29	23	10	11	12
2	15	9	12	21		16	16		
							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

2FQB84 — PowerPlex® Y 23

	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
		NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR		NR	NR		NR
	NR	NR	NR	NR			NR	NR	NR

2WBZGY — Yfiler™

		NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR		NR	NR		
							NR		NR

3P9ABE — Yfiler™ Plus

	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

9268Z9 — Yfiler™ Plus

	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

9QXRT2 — PowerPlex® Y 23

		15	13,14	14	31	25	11	14	13
3	14	10	10	19		15	16		23
	12	12	17	17			23	11	12

A37UR4 — Yfiler™ Plus

	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

ACWFX2 — PowerPlex® Y 23

		NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR		NR	NR		NR
	NR	NR	NR	NR			NR	NR	NR

AEKRW8 — Yfiler™ Plus

	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

CFUFB4 — Yfiler™

		-	-	-	-	-	-	-	-
3	-	-	-	-		-	-		
							-		-

FG99FU — PowerPlex® Y 23

		No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
3	No Results	No Results	No Results	No Results		No Results	No Results		No Results
	No Results	No Results	No Results	No Results			No Results	No Results	No Results

JTNHLH — Yfiler™ Plus

	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

PFKXUR — Yfiler™ Plus

	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

TABLE 2

WebCode	Amplification Kit								
	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

RPPR2P	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

UGJWVM	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

WPR82J	Yfiler™								
3									

Y3QV7H	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

TABLE 2

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

Item 4 - YSTR Results

7NGKG9	PowerPlex® Y 23								
		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		22
		11	12	17	19			21	11	11

WPR82J	Yfiler™								
4									

Y4GUKG	PowerPlex® Y 23								
		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		22
		11	12	17	19			21	11	11

TABLE 2

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 4e - YSTR Results

23E44C — Yfiler™ Plus

	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
4e	40	15	14,17	13	29	23	10	11	12
	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

2CP6PD — Yfiler™ Plus

4e	40	15	14,17	13	29	23	10	11	12
	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

2F39C9 — Yfiler™

4e		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		
							21		11

2FQB84 — PowerPlex® Y 23

4e		NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR		NR	NR		NR
	NR	NR	NR	NR			NR	NR	NR

2JPM34 — PowerPlex® Y 23

4e		15	INC	13	29	NR	10	NR	12
	15	9	NR	NR		16	NR		22
		NR	12	NR	NR		21	11	11

2UJ4R6 — Yfiler™

4e									

2WBZGY — Yfiler™

4e		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		
							21		11

2YHGDA — Yfiler™

4e			14,17	13			10	11	12
			12			16	16		
									11

3CL3FY — PowerPlex® Y 23

4e									

3P9ABE — Yfiler™ Plus

4e	40	15	14,17	13	29	23	10	11	12
	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

3W769C — PowerPlex® Y 23

4e		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		22
	11	12		17	19		21	11	11

3YCA3Z — Yfiler™ Plus

4e									

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 4e - YSTR Results

4ABKU9 — Yfiler™ (Item 4e)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Row 1		15	14,17	13	29	23	10	11	12
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
Row 2	15	9	12	21		16	16		
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Row 3							21		11

4BLKQ3 — Yfiler™ (Item 4e) — (no results)

4NU6E2 — PowerPlex® Y 23 (Item 4e)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Row 1		NT	NT	NT	NT	NT	NT	NT	NT
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
Row 2	NT	NT	NT	NT		NT	NT		NT
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Row 3	NT	NT	NT	NT			NT	NT	NT

6A9C3Z — PowerPlex® Y 23 (Item 4e) — (no results)

7HWCBW — Yfiler™ Plus (Item 4e) — (no results)

7KHAK9 — PowerPlex® Y 23 (Item 4e)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Row 1		15	14,17	13	29	23	10	11	12
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
Row 2	15	9	12	21		16	16		22
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Row 3	11	12	17	19			21	11	11

899UE4 — Yfiler™ (Item 4e)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Row 1		15	14,17	13	29	23	10	11	12
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
Row 2	15	9	12	21		16	16		
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Row 3							21		11

8M2LWJ — Yfiler™ Plus (Item 4e)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Row 1	40,40	15	14,17	13	29	23	10	11	12
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
Row 2	15	9	12	21	32	16	16	10	22
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Row 3	37	11		17	19	21	21		11

8M7Z8Y — Yfiler™ (Item 4e) — (no results)

8NYU64 — Yfiler™ (Item 4e)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Row 1		15	14,17	13	29	23	10	11	12
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
Row 2	15	9	12	21		16	16		
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Row 3							21		11

8WUYY4 — Yfiler™ Plus (Item 4e)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Row 1	40	15	14,17	13	29	23	10	11	12
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
Row 2	15	9	12	21	32	16	16	10	22
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Row 3	37	11		17	19	21	21		11

9268Z9 — Yfiler™ Plus (Item 4e)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Row 1	40	15	14,17	13	29	23	10	11	12
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
Row 2	15	9	12	21	32	16	16	10	22
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Row 3	37	11		17	19	21	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 4e - YSTR Results

9KVKDX — Yfiler™

4e									

9MMG3R — Yfiler™

4e		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		
							21		11

9QXRT2 — PowerPlex® Y 23

4e		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		22
		11	12	17	19		21	11	11

A37UR4 — Yfiler™ Plus

4e	40	15	14,17	13	29	23	10	11	12
	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

ACWFX2 — PowerPlex® Y 23

4e		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		22
		11	12	17	19		21	11	11

AEKRW8 — Yfiler™ Plus

4e	40	15	14,17	13	29	23	10	11	12
	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

AXEMAV — Yfiler™

4e									

BBH9AY — Yfiler™

4e		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		
							21		11

BD8EUW — Yfiler™ Plus

4e	40	15	14,17	13	29	23	10	11	12
	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

BK4ARU — PowerPlex® Y 23

4e		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		22
		11	12	17	19		21	11	11

BT3Y9Y — PowerPlex® Y 23

4e		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		22
		11	12	17	19		21	11	11

BYQL44 — Yfiler™ Plus

4e	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results	12
	15	No Results	12	No Results	No Results	No Results	16	No Results	No Results
	No Results	No Results		No Results	19	No Results	No Results		No Results

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 4e - YSTR Results

CEZP6P — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
4e									

CFUFB4 — 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
		15	14,17	13	29	23	10	11	12
4e	15	9	12	21		16	16		
							21		11

CWVHQM — Yfiler™ Plus

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
	40	15	14,17	13	29	23	10	11	12
4e	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

CYJUPT — PowerPlex® Y 23

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
		15	14,17	NR	NR	23	NR	11	12
4e	NR	9	NR	21		NR	16		NR
	11	12		17	19		21	11	11

D7ZP6M — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
4e									

DPTTJ3 — 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
		15	14,17	13	29	23	10	11	12
4e	15	9	12	21		16	16		
							21		11

DQKN9W — 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
		15	14,17	13	29	23	10	11	12
4e	15	9	12	21		16	16		
							21		11

E6Z97V — 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
		15	14,17	13	29	23	10	11	12
4e	15	9	12	21		16	16		
							21		11

EJFGXL — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
4e									

ERWN6R — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
4e									

F8M8WY — Yfiler™ Plus

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
	40	15	14,17	13	29	23	10	11	12
4e	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

F8N68U — 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
				13			10		
4e	15			21		16			
							21		

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	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
FG99FU PowerPlex® Y 23		15	14,17	13	29	23	10	11	12
4e	15	9	12	21		16	16		22
		11	12	17	19		21	11	11
G6VCBQ Yfiler™									
4e									
GLLC2P Yfiler™									
4e									
H2UPWT Yfiler™		15	14,17	13	29	23	10	11	12
4e	15	9	12	21		16	16		
							21		11
H9REDW Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4e	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
JHVUYV Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4e	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
JTNHLH Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4e	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
JU7JCQ Yfiler™		15	14,17	13	29	23	10	11	12
4e	15	9	12	21		16	16		
							21		11
JU7L2V Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4e	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
JVXHQP PowerPlex® Y 23		15	14,17	13	29	23	10	11	12
4e	15	9	12	21		16	16		22
		11	12	17	19		21	11	11
K6GBFQ Yfiler™		15	14,17	13	29	23	10	11	12
4e	15	9	12	21		16	16		
							21		11
KDAR4V Yfiler™		15	14,17	13	29	23	10	11	12
4e	15	9	12	21		16	16		
							21		11

TABLE 2

Item 4e - YSTR Results

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
KREMMW	Yfiler™		15	14,17	13	29	23	10	11	12
4e		15	9	12	21		16	16		
								21		11
LL2C2F	Yfiler™ Plus									
4e										
MA93ZT	PowerPlex® Y 23									
4e										
NG2ULR	Yfiler™		15	14,17	13	29	23	10	11	12
4e		15	9	12	21		16	16		
								21		11
NNNK9M	Yfiler™		15	14,17	13	29	23	10	11	12
4e		15	9	12	21		16	16		
								21		11
P63JQP	Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4e		15	9	12	21	32	16	16	10	22
		37	11		17	19	21	21		11
PFKXUR	Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4e		15	9	12	21	32	16	16	10	22
		37	11		17	19	21	21		11
PYFT7F	Yfiler™									
4e										
Q2LDUF	PowerPlex® Y 23		15	14,17	13	29	23	10	11	12
4e		15	9	12	21		16	16		22
			11	12	17	19		21	11	11
QJG4NN	Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4e		15	9	12	21	32	16	16	10	22
		37	11		17	19	21	21		11
QRYCCK	Yfiler™		15	14,17	13	29	23	10	11	12
4e		15	9	12	21		16	16		
								21		11
REN9HA	Yfiler™ Plus									
4e										

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	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
RPPR2P 4e	Yfiler™ Plus	40 / 15 / 37	15 / 9 / 11	14,17 / 12 /	13 / 21 / 17	29 / 32 / 19	23 / 16 / 21	10 / 16 / 21	11 / 10 /	12 / 22 / 11
THYWEC 4e	Yfiler™									
TMTQCD 4e	Yfiler™									
TNLJAH 4e	Yfiler™	/ 15 /	15 / 9 /	14,17 / 12 /	13 / 21 /	29 / /	23 / 16 /	10 / 16 / 21	11 / /	12 / / 11
TRAXZD 4e	Yfiler™									
TTFFY9 4e	PowerPlex® Y 23									
TVA76M 4e	Yfiler™									
TYAHZM 4e	Yfiler™									
UBVAZG 4e	Yfiler™	/ 15 /	15 / 9 /	14,17 / 12 /	13 / 21 /	29 / /	23 / 16 /	10 / 16 / 21	11 / /	12 / / 11
UGGCY8 4e	Yfiler™ Plus									
UGJWVM 4e	Yfiler™ Plus	40 / 15 / 37	15 / 9 / 11	14,17 / 12 /	13 / 21 / 17	29 / 32 / 19	23 / 16 / 21	10 / 16 / 21	11 / 10 /	12 / 22 / 11
UK7BLH 4e	Yfiler™	/ 15 /	15 / 9 /	14,17 / 12 /	13 / 21 /	29 / /	23 / 16 /	10 / 16 / 21	11 / /	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

UPGN4G PowerPlex® Y 23

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
4e									

VYWVFB Yfiler™ Plus

	40	15	14,17	13	29	23	10	11	12
4e	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

W2HYN9 PowerPlex® Y 23

		ND	ND	ND	ND	ND	ND	ND	ND
4e	ND	ND	ND	ND		ND	ND		ND
		ND	ND	ND	ND		ND	ND	ND

W96PA4 Yfiler™ Plus

4e									

W9GLF9 Yfiler™

4e									

X42DR9 Yfiler™

4e									

XARLC3 Yfiler™

		15	14,17	13	29	23	10	11	12
4e	15	9	12	21		16	16		
							21		11

XFXGV3 Yfiler™ Plus

4e									

XPKHCC Yfiler™

		15	14,17	13	29	23	10	11	12
4e	15	9	12	21		16	16		
							21		11

XUEFZ4 PowerPlex® Y 23

4e									

XYVKXD Yfiler™

		15	14,17	13	29	23	10	11	12
4e	15	9	12	21		16	16		
							21		11

XZ23V9 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

Item									
Y3QV7H	Yfiler™ Plus								
	40	15	14,17	13	29	23	10	11	12
4e	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
YT3Y6G	PowerPlex® Y 23								
		15	14,17	13	29	23	10	11	12
4e	15	9	12	21		16	16		22
		11	12	17	19		21	11	11
YVPNH3	Yfiler™ Plus								
	40	15	14,17	13	29	23	10	11	12
4e	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
YYNYE3	Yfiler™ Plus								
4e									
Z7HGCB	Yfiler™								
		15	14,17	13	29	23	10	11	12
4e	15	9	12	21		16	16		
							21		11
ZA6W37	Yfiler™								
4e									
ZBXPZB	Yfiler™								
		15	14	13	29	23	10	11	12
4e	15	9	12			16	16		
							21		11

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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

23E44C — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	40	15	14,17	13	29	23	10	11	12
4sp (DYS437–DYS481)	15	9	12	21	32	16	16	10	22
(DYS518–Y GATA H4)	37	11		17	19	21	21		11

2CP6PD — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

2F39C9 — Yfiler™

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11

2FQB84 — PowerPlex® Y 23

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
		11	12	17	19		21	11	11

2JPM34 — PowerPlex® Y 23

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
		11	12	17	19		21	11	11

2UJ4R6 — Yfiler™

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11

2WBZGY — Yfiler™

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11

2YHGDA — Yfiler™

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11

3CL3FY — PowerPlex® Y 23

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
		11	12	17	19		21	11	11

3P9ABE — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

3W769C — PowerPlex® Y 23

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
		11	12	17	19		21	11	11

3YCA3Z — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	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

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
4ABKU9 Yfiler™									
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11
4BLKQ3 Yfiler™									
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11
4NU6E2 PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
		11	12	17	19		21	11	11
6A9C3Z PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
		11	12	17	19		21	11	11
7HWCBW Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
7KHAK9 PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
		11	12	17	19		21	11	11
899UE4 Yfiler™									
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11
8M2LWJ Yfiler™ Plus									
	40,40	15	14,17	13	29	23	10	11	12
4sp	15		12	21	32		16	10	22
	37	11		17	19	21	21		11
8M7Z8Y Yfiler™									
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11
8NYU64 Yfiler™									
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11
8WUYY4 Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
9268Z9 Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

TABLE 2

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

Item 4sp - YSTR Results

9KVKDX — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11

9MMG3R — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11

9QXRT2 — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
		11	12	17	19		21	11	11

A37UR4 — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

ACWFX2 — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
		11	12	17	19		21	11	11

AEKRW8 — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

AXEMAV — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11

BBH9AY — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11

BD8EUW — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

BK4ARU — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
		11	12	17	19		21	11	11

BT3Y9Y — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
		11	12	17	19		21	11	11

BYQL44 — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	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 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
CEZP6P — PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
	11	12	17	19			21	11	11
CFUFB4 — Yfiler™									
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11
CWVHQM — Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
CYJUPT — PowerPlex® Y 23									
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
	11	12	17	19			21	11	11
D7ZP6M — Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
DPTTJ3 — Yfiler™									
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11
DQKN9W — Yfiler™									
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11
E6Z97V — Yfiler™									
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11
EJFGXL — Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
ERWN6R — Yfiler™									
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11
F8M8WY — Yfiler™ Plus									
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
F8N68U — Yfiler™									
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							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 4sp - YSTR Results

FG99FU — PowerPlex® Y 23

Item	col1	col2	col3	col4	col5	col6	col7	col8	col9
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
		11	12	17	19		21	11	11

G6VCBQ — Yfiler™

Item	col1	col2	col3	col4	col5	col6	col7	col8	col9
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11

GLLC2P — Yfiler™

Item	col1	col2	col3	col4	col5	col6	col7	col8	col9
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11

H2UPWT — Yfiler™

Item	col1	col2	col3	col4	col5	col6	col7	col8	col9
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11

H9REDW — Yfiler™ Plus

Item	col1	col2	col3	col4	col5	col6	col7	col8	col9
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

JHVUYV — Yfiler™ Plus

Item	col1	col2	col3	col4	col5	col6	col7	col8	col9
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

JTNHLH — Yfiler™ Plus

Item	col1	col2	col3	col4	col5	col6	col7	col8	col9
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

JU7JCQ — Yfiler™

Item	col1	col2	col3	col4	col5	col6	col7	col8	col9
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11

JU7L2V — Yfiler™ Plus

Item	col1	col2	col3	col4	col5	col6	col7	col8	col9
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

JVXHQP — PowerPlex® Y 23

Item	col1	col2	col3	col4	col5	col6	col7	col8	col9
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
		11	12	17	19		21	11	11

K6GBFQ — Yfiler™

Item	col1	col2	col3	col4	col5	col6	col7	col8	col9
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11

KDAR4V — Yfiler™

Item	col1	col2	col3	col4	col5	col6	col7	col8	col9
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		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
KREMMW — Yfiler™		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11
LL2C2F — Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
MA93ZT — PowerPlex® Y 23		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
		11	12	17	19		21	11	11
NG2ULR — Yfiler™		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11
NNNK9M — Yfiler™		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11
P63JQP — Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
PFKXUR — Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
PYFT7F — Yfiler™		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11
Q2LDUF — PowerPlex® Y 23		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
		11	12	17	19		21	11	11
QJG4NN — Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
QRYCCK — Yfiler™		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11
REN9HA — Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	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 4sp - YSTR Results

WebCode	Kit	C1	C2	C3	C4	C5	C6	C7	C8	C9
RPPR2P	Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4sp		15	9	12	21	32	16	16	10	22
		37	11		17	19	21	21		11
THYWEC	Yfiler™		15	14,17	13	29	23	10	11	12
4sp		15	9	12	21		16	16		
								21		11
TMTQCD	Yfiler™		15	14,17	13	29	23	10	11	12
4sp		15	9	12	21		16	16		
								21		11
TNLJAH	Yfiler™		15	14,17	13	29	23	10	11	12
4sp		15	9	12	21		16	16		
								21		11
TRAXZD	Yfiler™		15	14,17	13	29	23	10	11	12
4sp		15	9	12	21		16	16		
								21		11
TTFFY9	PowerPlex® Y 23		15	14,17	13	29	23	10	11	12
4sp		15	9	12	21		16	16		22
			11	12	17	19		21	11	11
TVA76M	Yfiler™		15	14,17	13	29	23	10	11	12
4sp		15	9	12	21		16	16		
								21		11
TYAHZM	Yfiler™		15	14,17	13	29	23	10	11	12
4sp		15	9	12	21		16	16		
								21		11
UBVAZG	Yfiler™		15	14,17	13	29	23	10	11	12
4sp		15	9	12	21		16	16		
								21		11
UGGCY8	Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4sp		15	9	12	21	32	16	16	10	22
		37	11		17	19	21	21		11
UGJWVM	Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4sp		15	9	12	21	32	16	16	10	22
		37	11		17	19	21	21		11
UK7BLH	Yfiler™		15	14,17	13	29	23	10	11	12
4sp		15	9	12	21		16	16		
								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 4sp - YSTR Results

UPGN4G — PowerPlex® Y 23

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
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
		11	12	17	19		21	11	11

VYWVFB — Yfiler™ Plus

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
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

W2HYN9 — PowerPlex® Y 23

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
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
		11	12	17	19		21	11	11

W96PA4 — Yfiler™ Plus

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
	40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

W9GLF9 — 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
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11

X42DR9 — 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	14,17	13	29	23	10	11	12
4sp	15	9	12	21	N/A	16	16	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	21	N/A	11

XARLC3 — 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
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11

XFXGV3 — Yfiler™ Plus

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
	40,40	15	14,17	13	29	23	10	11	12
4sp	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

XPKHCC — 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
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11

XUEFZ4 — PowerPlex® Y 23

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
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		22
		11	12	17	19		21	11	11

XYVKXD — 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
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							21		11

XZ23V9 — 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
		15	14,17	13	29	23	10	11	12
4sp	15	9	12	21		16	16		
							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 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
Y3QV7H — Yfiler™ Plus									
4sp	40	15	14,17	13	29	23	10	11	12
	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
YT3Y6G — PowerPlex® Y 23									
4sp		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		22
		11	12	17	19		21	11	11
YVPNH3 — Yfiler™ Plus									
4sp	40	15	14,17	13	29	23	10	11	12
	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
YYNYE3 — Yfiler™ Plus									
4sp	40	15	14,17	13	29	23	10	11	12
	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
Z7HGCB — Yfiler™									
4sp		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		
						21			11
ZA6W37 — Yfiler™									
4sp		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		
						21			11
ZBXPZB — Yfiler™									
4sp		15	14,17	13	29	23	10	11	12
	15	9	12	21		16	16		
						21			11

Additional DNA Results

TABLE 3

Locus	WebCode	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4	Item 4e	Item 4sp
QS1	4MYKMV	Q	Q						
	6TKYQT	Q							
	9W9KAR	Q	Q						
	BP3Q6N		Q						
	CFRNJN	Q	Q						
	EMJ3WK	Q	Q						
	F7ADJJ	Q	Q						
	KE7YCE	Q	Q						
	KGBR7D	Q	Q						
	ND69WA		Q						
	RJWMA8	Q	Q						
	TV8ED8	Q	Q						
	VR2V44	Q	Q						
	XCJJQ2	Q	Q						
QS2	4MYKMV	S	S						
	6TKYQT	S							
	9W9KAR	S	S						
	BP3Q6N		S						
	CFRNJN	S	S						
	EMJ3WK	S	S						
	F7ADJJ	S	S						
	KE7YCE	S	S						
	KGBR7D	S	S						
	ND69WA		S						
	RJWMA8	S	S						
	TV8ED8	S	S						
	VR2V44	S	S						
	XCJJQ2	S	S						

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) 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
227TCE	Yes	Yes	No	Yes	3YCA3Z	Yes	Yes	No	Yes
23E44C	Yes	Yes	No	Yes	48KECW	Yes	Yes	No	Yes
2CP6PD	Yes	Yes	No	Yes	4ABKU9	Yes	Yes	No	Yes
2EVQFX	Yes	Yes	No	Yes	4BLKQ3	Yes	Yes	No	Yes
2F39C9	Yes	Yes	No	Yes	4C3J97	Yes	Yes	No	Yes
2FQB84	Yes	Yes	No	Yes	4JD36B	Yes	Yes	No	Yes
2HV2BX	Yes	Yes	No	Yes	4L7TEV	Yes	Yes	No	Yes
2JPM34	Yes	Yes	No	Yes	4MYKMV	No Interpretations Reported, DNA Analyzed for Database purposes only.			
2UJ4R6	No Interpretations Reported, DNA Analyzed for Database purposes only.				4NU6E2	Yes	Yes	No	Yes
2WBZGY	Yes	Yes	No	Yes	69X9RW	Yes	Yes	No	Yes
2YHGDA	Yes	Yes	No	Yes	6A9C3Z	Yes	Yes	No	Yes
36LL38	Yes	Yes	No	Yes	6D449C	Yes	Yes	No	Yes
37G7UD	Yes	Yes	No	Yes	6QTZCV	No Interpretations Reported, DNA Analyzed for Database purposes only.			
39YLXD	No Interpretations Reported, DNA Analyzed for Database purposes only.				6R8EWX	Yes	Yes	No	Yes
3CL3FY	Yes	Yes	No	Yes	6TKYQT	No Interpretations Reported, DNA Analyzed for Database purposes only.			
3P9ABE	Yes	Yes	No	Yes	7AZTT3	Yes	Yes	No	Yes
3QFPJ7	Yes	Yes	No	Yes	7EUMP4	Yes	Yes	No	Yes
3RWNYN	Yes	Yes	No	Yes	7HWCBW	Yes	Yes	No	Yes
3VBJG8	Yes	Yes	No	Yes	7JBUD3	Yes	Yes	No	Yes
3W769C	Yes	Yes	No	Yes	7KHAK9	Yes	Yes	No	Yes

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
7MNU99	Yes	Yes	No	Yes	ACWFX2	No Interpretations Reported, DNA Analyzed for Database purposes only.			
7NGKG9	Yes	Yes	No	Yes	AEKRW8	Yes	Yes	No	Yes
83W7D8	Yes	Yes	No	Yes	AXEMAV				
899UE4	Yes	Yes	No	Yes	BBH9AY	Yes	Yes	No	Yes
8C88Y9	Yes	Yes	No	Yes	BD8EUW	Yes	Yes	No	Yes
8G26NY	Yes	Yes	No	Yes	BK4ARU	Yes	Yes	No	Yes
8LT9G3	Yes	Yes	No	Yes	BLF9M4	Yes	Yes	No	Yes
8M2LWJ	Yes	Yes	No	Yes	BP3Q6N	No Interpretations Reported, DNA Analyzed for Database purposes only.			
8M7Z8Y					BQB3LQ	Yes	Yes	No	Yes
8NYU64	Yes	Yes	No	Yes	BQUNEF	Yes	Yes	No	Yes
8WUYY4	Yes	Yes	No	Yes	BT3Y9Y	Yes	Yes	No	Yes
8YKXD3	Yes	Yes	No	Yes	BW3A6Y	Yes	Yes	No	Yes
9268Z9	Yes	Yes	No	Yes	BYQL44	Yes	Yes	No	Yes
9GULVT	Yes	Yes	No	Yes	BZHHTX	Yes	Yes	No	Yes
9KVKDX	No Interpretations Reported, DNA Analyzed for Database purposes only.				C4CZYP	Yes	Yes	No	Yes
9MMG3R	Yes	Yes	No	Yes	CEZP6P	Yes	Yes	No	Yes
9QXRT2	Yes	Yes	No	Yes	CFRNJN	No Interpretations Reported, DNA Analyzed for Database purposes only.			
9W9KAR	No Interpretations Reported, DNA Analyzed for Database purposes only.				CFUFB4	Yes	Yes	No	Yes
9XGXP8	Yes	Yes	No	Yes	CNLTCP	Yes	Yes	No	Yes
A37UR4	Yes	Yes	No	Yes	CUQUBX	Yes	Yes	No	Yes
A9E3BT	Yes	Yes	No	Yes	CVKF24	Yes	Yes	No	Yes

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
CWVHQM	Yes	Yes	No	Yes	G6VCBQ	No Interpretations Reported, DNA Analyzed for Database purposes only.			
CYJUPT	Yes	Yes	No	Yes	GD7U6A	Yes	Yes	No	Yes
D27TFW	Yes	Yes	No	Yes	GLLC2P	No Interpretations Reported, DNA Analyzed for Database purposes only.			
D7ZP6M	Yes	Yes	No	Yes	H2UPWT	Yes	Yes	No	Yes
DPTTJ3	Yes	Yes	No	Yes	H9REDW	Yes	Yes	No	Yes
DQKN9W	Yes	Yes	No	Yes	HF9XNJ	Yes	Yes	No	Yes
E6Z97V	Yes	Yes	No	Yes	HWDKYH	Yes	Yes	No	Yes
EJFGXL	Yes	Yes	No	Yes	JBQABQ	Yes	Yes	No	Yes
EM6GKX	Yes	Yes	No	Yes	JCLV3V	Yes	Yes	No	Yes
EMJ3WK	No Interpretations Reported, DNA Analyzed for Database purposes only.				JHVUYV	Yes	Yes	No	Yes
ERWN6R					JTNHLH	No Interp	No Interp	No	Yes
F432XC	Yes	Yes	No	Yes	JU7JCQ	Yes	Yes	No	Yes
F7ADJJ	No Interpretations Reported, DNA Analyzed for Database purposes only.				JU7L2V	Yes	No	Yes	Yes
F82CTC	Yes	Yes	No	Yes	JVXHQP	Yes	Yes	No	Yes
F8M8WY	Yes	Yes	No	Yes	K6GBFQ	Yes	Yes	No	Yes
F8N68U	Yes	Yes	No	Yes	K7Y3TG	Yes	Yes	No	Yes
F9E4LT	Yes	Yes	No	Yes	KCF2YF	Yes	Yes	No	Yes
FEHA2V	Yes	Yes	No	Yes	KDAR4V	Yes	Yes	No	Yes
FG99FU	Yes	Yes	No	Yes	KE7YCE	No Interpretations Reported, DNA Analyzed for Database purposes only.			
FGTRK2	Yes	Yes	No	Yes	KGBR7D	No Interpretations Reported, DNA Analyzed for Database purposes only.			
G3LJVH	Yes	Yes	No	Yes	KJJKLL	Yes	Yes	No	Yes

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
KPPG6L	Yes	Yes	No	Yes	QJG4NN	Yes	Yes	No	Yes
KREMMW	Yes	Yes	No	Yes	QL9ZCH	Yes	Yes	No	Yes
KWN28G	Yes	Yes	No	Yes	QRYCCK	Yes	Yes	No	Yes
L868GP	No Interpretations Reported, DNA Analyzed for Database purposes only.				QWQG8A	Yes	Yes	No	Yes
LL2C2F	Yes	Yes	No	Yes	R2VZJ8	No Interpretations Reported, DNA Analyzed for Database purposes only.			
M8KQ2M	Yes	Yes	No	Yes	REN9HA	Yes	Yes	No	Yes
MA93ZT	Yes	Yes	No	Yes	RGTRNH	Yes	Yes	No	Yes
MPFJMK	Yes	Yes	No	Yes	RJWMA8	No Interpretations Reported, DNA Analyzed for Database purposes only.			
N74WYR	Yes	Yes	No	Yes	RPPR2P	Yes	Yes	No	Yes
ND69WA	No Interpretations Reported, DNA Analyzed for Database purposes only.				TEMNE8	Yes	Yes	No	Yes
NG2ULR	Yes	Yes	No	Yes	THYWEC				
NKNC4C	No Interpretations Reported, DNA Analyzed for Database purposes only.				TMTQCD	No Interpretations Reported, DNA Analyzed for Database purposes only.			
NM8Q8D	Yes	Yes	No	Yes	TNLJAH	Yes	Yes	No	Yes
NNNK9M	Yes	Yes	No	Yes	TRAXZD				
P63JQP	Yes	Yes	No	Yes	TTFFY9	Yes	Yes	No	Yes
P884GB	Yes	Yes	No	Yes	TV8ED8	No Interpretations Reported, DNA Analyzed for Database purposes only.			
PBWFFG	Yes	Yes	No	Yes	TVA76M	Yes	Yes	No	Yes
PFKXUR	Yes	Yes	No	Yes	TYAHZM	Yes	Yes	No	Yes
PYFT7F					UBVAZG	Yes	Yes	No	Yes
PYXF3C	Yes	Yes	No	Yes	UDM9EF	Yes	Yes	No	Yes
Q2LDUF	Yes	Yes	No	Yes	UEUMLL	Yes	Yes	No	Yes

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
UGGCY8	Yes	Yes	No	Yes	XHMQ64	No Interpretations Reported, DNA Analyzed for Database purposes only.			
UGJWVM	Yes	Yes	No	Yes	XPJL43	No Interpretations Reported, DNA Analyzed for Database purposes only.			
UK7BLH	Yes	Yes	No	Yes	XPKHCC	Yes	Yes	No	Yes
ULGD9G	Yes	Yes	No	Yes	XPMA4T	Yes	Yes	No	Yes
UPGN4G	Yes	Yes	No	Yes	XUEFZ4	Yes	Yes	No	Yes
UR44UC	Yes	Yes	No	Yes	XYVKXD	Yes	Yes	No	Yes
UV4C28	Yes	Yes	No	Yes	XZ23V9	No Interpretations Reported, DNA Analyzed for Database purposes only.			
UXVBE7	Yes	Yes	No	Yes	Y3QV7H	Yes	Yes	No	Yes
VR2V44	No Interpretations Reported, DNA Analyzed for Database purposes only.				Y4GUKG	Yes	Yes	No	Yes
VYWVFB	Yes	Yes	No	Yes	YDL2ZG	Yes	Yes	No	Yes
W2HYN9	Yes	Yes	No	Yes	YHGVWH	Yes	Yes	No	Yes
W96PA4	Yes	Yes	No	Yes	YT3Y6G	Yes	Yes	No	Yes
W9GLF9					YVPNH3	Yes	Yes	No	Yes
WPR82J	Yes	Yes	No	Yes	YW3BZG	Yes	Yes	No	Yes
WUJA84	Yes	Yes	No	Yes	YYNTH2	Yes	Yes	No	Yes
WW9L7A	Yes	Yes	No	Yes	YYNYE3	Yes	Yes	No	Yes
WZMEW3	Yes	Yes	No	Yes	YZZPN7	Yes	Yes	No	Yes
X42DR9					Z7GK42	Yes	Yes	No	Yes
XARLC3	Yes	Yes	No	Yes	Z7HGCB	Yes	Yes	No	Yes
XCJJQ2	No Interpretations Reported, DNA Analyzed for Database purposes only.				ZA6W37	No Interpretations Reported, DNA Analyzed for Database purposes only.			
XFXGV3	Yes	Yes	No	Yes	ZBXPZB	Yes	Yes	No	Yes

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
ZECM8X	No Interpretations Reported, DNA Analyzed for Database purposes only.								

DNA Interpretation				
Response Summary			**Participants reporting DNA results: 209**	

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	**170**	**169**	**1**	**171**
No	**0**	**1**	**170**	**0**
Inc	**0**	**0**	**0**	**0**
No Interpretation	**1**	**1**	**0**	**0**
No Response	**8**	**8**	**8**	**8**

Participants analyzing DNA for database purposes only: 30

Additional Comments

TABLE 5

WebCode	Additional Comments
2FQB84	NR=No result.
2JPM34	When reporting DNA profiles, "INC" means "Inconclusive" results at that locus. When reporting DNA profiles, "NR" means "No Results" (either because of a partial profile result, or because that locus is on the Y-chromosome and the DNA profile is from a female donor). The extracts from items 3 and 4 were tested for the presence of human blood using the ABAcard HemaTrace test. Human blood was detected on items 3 and 4. NOTE: the HemaTrace test is known to cross-react with some species of the Mustelidae family and with higher primates.
2UJ4R6	NR = no results. No comparisons performed.
2WBZGY	Y-STR analysis was not performed on sample 1 because no male DNA was detected using Quantifiler Trio. Yfiler results for Item 3 are NR-No Results. Quantifiler Trio results gave a very low T.Y. value of .2 picograms per microliter which is why Y-STR analysis was performed.
39YLXD	NR = No Results
3P9ABE	NR=No results. STRmix analysis conducted on Item 4 (fraction e). All reported data from GeneMapper ID-X analysis
3RWNYN	ND = Not Detected
4BLKQ3	NR = No Result
4JD36B	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. Poweplex Fusion 6C is used only for allele verification. N.D.: Not Detected
4NU6E2	NT = NOT TESTED. NR = NO RESULT.
6A9C3Z	Items 3 and 4 were tested for the presence of human blood using the HemaTrace test. Sperm cells were identified on Item 4 through microscopic examination.
7JBUD3	4e at D1S1656 is marked inconclusive due to an unresolved allele at that locus. { } = Imbalanced Alleles
83W7D8	N.R.: Not Reported - Not Detected or Not Interpretable.
8C88Y9	N.D.: Not Detected. Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification.
8G26NY	Technical Review (Ownership Review) PT
8M2LWJ	Item 4 (epithelial cell fraction) - Locus D1S1656 ignored from STRmix calculation due to an unresolved peak.
8M7Z8Y	No comparisons performed. NR = No Results.
9268Z9	All data reported originated from analysis using GeneMapper-IDX. In addition, Item 4e was analyzed with STRmix Software. No result is noted as NR.
9KVKDX	No comparisons performed. NR = No Result.
9MMG3R	Y-STR not performed on Item 1 and 3 because they gave no T.Y value with Quantifiler Trio.
A37UR4	Note: 1) NR: No Results. 2) Conclusions were based on the data obtained from GeneMapper ID-X. 3) STRmix analysis was performed on ITEM4F. 4) "F" fraction = "e" fraction; "M" fraction = "sp" fraction.
AEKRW8	NR = No Results. STRmix analysis was conducted on this test. Data reported out in this test is from analysis using GeneMapper ID-X.
AXEMAV	No comparisons made.

TABLE 5

WebCode	Additional Comments
BD8EUW	Peaks modeled as stutter or possible drop-in for probabilistic genotyping software were not included in the data table per laboratory policy.
BK4ARU	NR = no result
CFUFB4	Extraction: Item 3 and Item 4 were extracted using the Chelex extraction method. Quantification: Item 3 and Item 4 were quantified using the Quantifiler Human DNA Quantification Kit on Applied Biosystems 7500 Real-Time PCR Systems. Amplification: Item 1 and Item 2 were amplified using the AmpFLSTR Identifiler Direct PCR Amplification Kit on Applied Biosystems GeneAmp PCR System 9700. By using the in-situ method, Item 1 and Item 2 were also amplified using the AmpFLSTR Identifiler Yfiler PCR Amplification Kit on Applied Biosystems GeneAmp PCR System 9700. Item 3 and Item 4 were amplified using the AmpFLSTR Identifiler Plus and Yfiler PCR Amplification Kits on Applied Biosystems GeneAmp PCR System 9700. Electrophoresis: Electrophoresis was carried out on the Applied Biosystems 3500XL Genetic Analyzer and the data were analyzed with GeneMapper ID-X v1.5 software. Quality control: Reagent Blank, Positive Control and Negative Control were included throughout the analysis and all gave intended results.
CNLTCP	N.R. - Not Detected or Not Interpretable
CUQUBX	Due to possible unresolved allele 16 was observed, the D1S1656 locus in epithelial fraction of sample "Item 4" is reported as inconclusive.
CYJUPT	Please note "NR" is defined as no result.
DPTTJ3	Extraction: 1) Item 1 and Item 2 were extracted using in-situ method. 2) Item 3 was extracted using Promega DNA IQ on Tecan Freedom EVO 150 platform. 3) Item 4 was extracted using Chelex extraction method. Quantification: Item 3 and 4 were quantified using Quantifiler Trio DNA Quantitation Kit on QuantStudio 5. Amplifications: 1) Item 1 and Item 2 were amplified using the Globalfiler Express kit on Proflex PCR System. 2) Item 3 and Item 4 were amplified using the AmpFlSTR Globalfiler Casework kit on 9700 GeneAmp PCR System. 3) Item 2 and Item 4 were also amplified using AmpFlSTR YFiler kit on 9700 GeneAmp PCR System. Electrophoresis: Capillary electrophoresis on all amplified samples (Globalfiler Express, Globalfiler Casework and YFiler) were carried out on Genetic Analyzer 3500xL. Quality Control: Reagent Blank, Positive Control and Negative Control were carried out along with the analysis and all gave the intended results.
ERWN6R	No comparisons performed.
G6VCBQ	NR = No Result. No comparison performed.
GD7U6A	ND = NOT DETECTED
GLLC2P	No comparisons performed. NR = No Result
HWDKYH	Item 4sp locus D13S317 reported as [8]. 8 allele noted as below stochastic threshold with additional data below analytical threshold.
JHVUYV	NR = No Result
JTNHLH	Item 1 was not examined due to YSTR specific testing. Item 3 did not produce a YSTR profile.

TABLE 5

WebCode	Additional Comments
KDAR4V	Extraction: Item 1 and Item 2 were extracted using in situ method. Item 3 was extracted using Promega DNA IQ kit on Tecan Freedom 150 and Item 4 was extracted using Chelex extraction method. Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Human DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using Globalfiler Express (GFE) Kit on ABI Proflex PCR System. Item 3 and Item 4 were amplified using GlobalFiler Casework Amplification Kit on ABI GeneAmp PCR System 9700. Item 2 and Item 4 were amplified using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4. Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 2 and Item 4 (Y-Filer Kit). Quality Control: Reagent Blank, Positive Control and Negative Control were carried out during analysis and all gave intended results. NM: Non-male allele.
KREMMW	Extraction: -Item 1 and Item 2 were extracted using in-situ method. -Item 4 was extracted using chelex extraction (differential method). -Item 3 was extracted using Promega DNA IQ kit on Tecan Evo Freedom 150. Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Trio DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: -Item 1 and Item 2 were amplified using GlobalFiler Express Kit on ABI Proflex PCR System. -Item 3 and Item 4 were amplified using GlobalFiler Amplification Kit on ABI GeneAmp PCR System 9700. -Y-STR Amplification was carried out on Item 2 and 4 using AmpFLSTR YFiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: -Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4. Quality Control: -Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
NG2ULR	1. Extraction: In-situ extraction method was used to extract DNA from Item 1 and Item 2. Chelex extraction method was used to extract DNA from Item 3 and Item 4. 2. Quantification: DNA quantification was carried out on Item 3 and Item 4 using Quantifiler Human DNA Quantification Kit with Applied Biosystem Real Time Polymerase Chain Reaction 7500 System. 3. Amplification: Amplification of STR (Short Tandem Repeat) Genetic Loci was carried out on Item 1 and Item 2 using the AmpFLSTR Identifiler Direct PCR Amplification Kit, while on Item 3 and Item 4 using the AmpFLSTR Identifiler Plus PCR Amplification Kit on the 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification was carried out on Item 2 and Item 4 using the AmpFLSTR Y-Filer PCR Amplification kit on the 9700 GeneAmp PCR system. 4. Electrophoresis: Electrophoresis was carried out using Applied Biosystem 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 1 and Item 2 (Identifiler Direct) and Item 3 and Item 4 (Identifiler Plus). Electrophoresis for Y-Filer was carried out using Applied Biosystem 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 2 and Item 4. 5. Reagent blank, positive control and negative control were carried out throughout the analysis and all gave the intended results.
PBWFFG	Technical Review (Ownership Review) PT
PFKXUR	NR=No Results. STRmix analysis was conducted on this test. Data reported out is from analysis using GeneMapper ID-X.
PYFT7F	No comparisons performed.
PYXF3C	Q1.3.1s was not reported on due to no DNA.
RPPR2P	NR = no results. The data reported out in this proficiency test is from analysis using GeneMapper ID-X, STRmix analysis was also conducted on Item 4e.
THYWEC	No comparisons performed.
TMTQCD	No comparisons performed. NR= No Results.
TRAXZD	NR= No Result. No comparisons performed.

TABLE 5

WebCode	Additional Comments
TVA76M	Extraction: In-situ extraction method was used to extract DNA from Item 1 and Item 2. Chelex extraction method was used to extract DNA from Item 3 and Item 4. Quantification: DNA quantitation for Item 3 and Item 4 were carried out using the Quantifiler Human DNA Quantification kit with Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 system. Amplification: Amplification of STR (Short Tandem Repeat) genetic loci for Item 1 and Item 2 were carried out using the AmpFISTR Identifiler Direct Amplification Kit and Item 3 and Item 4 were amplified using the AmpFISTR Identifiler Plus PCR Amplification Kit. Amplification of Y-STR (Y-Short Tandem Repeat) genetic loci for Item 2 and Item 4 were carried out using the AmpFISTR 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.
TYAHZM	Extraction: - Item 1 and Item 2 were extracted using in-situ method. - Item 3 was extracted using investigator kit on QIASymphony platform. - Item 4 was extracted using chelex method. Quantification: - Item 3 and Item 4 were quantitated using Quantifiler Human 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 Casework Amplification kit on GeneAmp PCR 9700 System. - Item 2, Item 4 (sp) were amplified using AmpFLSTR Y-Filer PCR Amplification kit on GeneAmp PCR 9700 System. Electrophoresis: - Item 1 and Item 2 (GlobalFiler Express) while Item 3 and Item 4 (GlobalFiler Casework) were run on ABI 3500xL Genetic Analyzer. - Item 2 and Item 4 (sp) 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 represents Non-Male profile.
UGJWVM	NR = No Results. STRmix analysis was conducted on this test. All data reported in this test is from analysis using GeneMapper ID-X.
W2HYN9	BST = below stochastic threshold. ND = no data.
W9GLF9	No comparisons performed.
WW9L7A	In the epithelial cell fraction of item 4, an additional allele (19) was noted in a +1 stutter position at SE33 and is possibly elevated stutter (26%). This peak did not affect the interpretation of the mixture and the resulting comparisons.
X42DR9	Abbreviations: NR - No Results. N/A - Not Applicable. No comparisons performed.
XARLC3	Y-STR analysis was not performed on items 1 and 3 because no male DNA was detected using Quantifiler Trio.
XHMQ64	DNA interpretations not reported; samples analyzed for database purposes only.
XZ23V9	No comparisons performed. NR = No Result
Y3QV7H	NR=No results. STRmix analysis performed on Item 4e. Data reporting in this test is from analysis using Genemapper ID-X
YYNTH2	N.D.: Not Detected. Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification.
ZA6W37	NR= No Result. No comparisons performed.

-End of Report-
(Appendix may follow)

Test No. 21-5802: DNA-Semen

DATA MUST BE SUBMITTED BY **May 3, 2021, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A   WebCode: 2ZWNYQ

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

Scenario:

Police are investigating the sexual assault of a female victim. Police were called to a bar near the scene of the incident by the bartender of the establishment. The victim explained to police that she had been attacked in a nearby alley after she exited the bar for a smoke. Police have apprehended a male suspect based on security camera footage of a male walking in front of the bar in the direction of the alley around the time of the incident. Investigators are submitting stains from the shirt (Item 3) the suspect was wearing and the skirt (Item 4) the victim was wearing. Screening has been performed on both samples with the following results: Item 3 (suspect's shirt) is positive for blood, and Item 4 (victim's skirt) is positive for blood and semen. Also provided were known blood samples from the female victim (Item 1) and the male suspect (Item 2).

Items Submitted (Sample Pack S2):

Item 1: Known blood from the female victim
Item 2: Known blood from the male suspect
Item 3: Questioned blood stain from suspect's shirt (pink)
Item 4: Questioned blood and semen mixture from victim's skirt (off-white)

Part I: DNA Results for Known Item 1

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

STR Amplification Kit(s) Used:

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

☐ Identifiler®   ☐ GlobalFiler™   ☐ Investigator® 24plex

☐ PowerPlex®   Other

Report the Probabilistic Genotyping Software Used (if applicable):

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

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

YSTR Amplification Kit(s) Used:

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

☐ YFiler™   ☐ PowerPlex® Y   Other

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

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

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

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

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

☐ Identifiler® _____   ☐ GlobalFiler™ _____   ☐ Investigator® 24plex _____

☐ PowerPlex® _____   Other _____

Report the Probabilistic Genotyping Software Used (if applicable): _____

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

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2						

ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
2						

ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
2						

ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
2						

ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
2						

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

☐ YFiler™ _____   ☐ PowerPlex® Y _____   Other _____

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

ITEM	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
2									

ITEM	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
2									

ITEM	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
2									

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

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

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

☐ Identifiler® ☐ 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						

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

☐ YFiler™ ☐ PowerPlex® Y Other

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

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

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

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

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

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

☐ Identifiler® ☐ 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						

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

☐ YFiler™ ☐ PowerPlex® Y Other

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

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

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

Part I (continued): DNA Analysis - Additional DNA

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

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

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

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

Part II: DNA INTERPRETATION

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

	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)