Collaborative Testing Services, Inc

FORENSIC TESTING PROGRAM

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DNA-Semen Test No. 24-5804
Summary Report

Each participant received a sample set consisting of two known bloodstains and two questioned stains which they were asked to analyze using their existing protocols. Data were returned from 250 participants and are compiled into the following tables:

Manufacturer's Information

Each sample set consisted of two known bloodstains on white fabric (Items 1 and 2) and two questioned stains on colored fabric (Items 3 and 4). Participants were asked to analyze these items using their existing protocols.

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

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

VERIFICATION: Predistribution results were consistent with each other and the manufacturer's preparation information. 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	16.3,18.3	16,25	10,11	15,16	9,12	*
	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12	17,31.2	6,6	8,8
	16,18	11	17	20	2	
2	13,17.3	20,23	11,14	15,17	9,12	*
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23	12,13	13,18	19,28.2	6,6	8,8
	17,18	NM	NM	NM	NM	
3-Blood	16.3,18.3	16,25	10,11	15,16	9,12	*
	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12	17,31.2	6,6	8,8
	16,18	11	17	20	2	
3-Semen	17.3,17.3	17,20	10,14	15,18	10,11	*
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	9,13	12,16	15,16	6,9.3	8,8
	17,17	11	17	18	2	
4	16.3,18.3	16,25	10,11	15,16	9,12	*
	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10,10
	19,24	12,12	7,12	17,31.2	6,6	8,8
	16,18	11	17	20	2	

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

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

YSTR Results

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

Item	DYF387S1 DYS437 DYS518	DYS19 DYS438 DYS533	DYS385 DYS439 DYS549	DYS389-I DYS448 DYS570	DYS389-II DYS449 DYS576	DYS390 DYS456 DYS627	DYS391 DYS458 DYS635	DYS392 DYS460 DYS643	DYS393 DYS481 Y GATA H4
1	35,37	14	11,14	13	30	24	11	12	13
	15	12	12	19	29	16	17	10	23
	37	11	12	17	20	22	23	12	12
3-Blood	35,37	14	11,14	13	30	24	11	12	13
	15	12	12	19	29	16	17	10	23
	37	11	12	17	20	22	23	12	12
3-Semen	35,36	15	11,14	13	29	23	11	13	13
	15	12	12	18	29	16	17	12	22
	37	13	12	17	18	22	23	10	12
4	35,37	14	11,14	13	30	24	11	12	13
	15	12	12	19	29	16	17	10	23
	37	11	12	17	20	22	23	12	12

Summary Comments

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

DNA Analysis
For STR results, all participants reported consistent results, with the exception of three participants which reported an inconsistent result for one or more items.

For YSTR results, all but two participants reported consistent results.

DNA Interpretations
Of the 250 participants that returned DNA results, 241 reported DNA interpretations. Four participants selected the "No Interpretation" option for each conclusion and five did not respond.

For Item 3, all but seven participants included the victim (Item 1) as a possible contributor to the stain. Of the remaining participants, two excluded the victim and five reported "Inconclusive." All but one participant excluded the suspect (Item 2) as a possible contributor to the stain. The remaining participant included the suspect.

For Item 4, all but one participant included the victim (Item 1) and excluded the suspect (Item 2) as possible contributors to the stain. The remaining participant excluded the victim and included the suspect.

STR Amplification Kit(s) & Results

TABLE 1

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

Item 1 - STR Results

2CARJY — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

2CBPUV — PowerPlex® Fusion (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

2EUQPG — GlobalFiler™ (Genemapper ID-X v. 1.5) (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

2LWYVA — Investigator® 24plex QS (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	N/A
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	N/A	N/A	17,31.2	6,6	8,8
16,18	11	N/A	N/A	N/A	

2MRFCD — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

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

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

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 1 - STR Results

34VAJD	PowerPlex® Fusion 5C					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12		6,6	8,8
	16,18	11				

3M82G9	PowerPlex® Fusion 5C					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

3PCPYJ	GlobalFiler™ Express					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

42GHPM	GlobalFiler™					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

466PDP	GlobalFiler™ (STRmix)					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

46YP69	GlobalFiler™					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

4E4E3D	Identifiler® Plus					
		16,25		15,16	9,12	
1	9,11	13,13			11,12	12,13
	14,15	14,15	29,30		X,Y	10,10
	19,24				6,6	8,8
	16,18					

TABLE 1

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

Item 1 - STR Results

4ERV62 — GlobalFiler™, ArgusX — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

4F2ZKB — GlobalFiler™ Express — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

4FH446 — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

4GGZ2F — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

4RUGAC — PowerPlex® Fusion 6C (STRmix) — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

4WNDWH — GlobalFiler™ (STRmix) — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

6ATW8H — GlobalFiler™ (STRmix) — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

TABLE 1

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

Item 1 - STR Results

6E4X4L	GlobalFiler™, VerifilerPlus, PowerPlex® CS7					
	16.3,18.3	16,25	10,11	15,16	9,12	12,18
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18					

6HNYAU	GlobalFiler™ Direct					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

6R969J	GlobalFiler™ (STRmix)					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

6UZ7AZ	PowerPlex® Fusion 5C					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

6W3CHE	PowerPlex® Fusion 6C					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12	17,31.2	6,6	8,8
	16,18	11	17	20		

6W6UPQ	PowerPlex® Fusion 5C					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12		6,6	8,8
	16,18	11,11				

6WJ84M	PowerPlex® Fusion 5C					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

TABLE 1

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

Item 1 - STR Results

72E89A GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

774WK8 PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12		6,6	8,8
	16,18	11				

79EUXN PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		

7ANQFL GlobalFiler™ Express (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

7CBD39 GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

7D9QLU GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

7G4M29 PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12		6,6	8,8
	16,18	11				

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 1 - STR Results

WebCode	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
7G769J	GlobalFiler™ (STRmix)					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	
7GQVBC	PowerPlex® Fusion 6C					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12	17,31.2	6,6	8,8
	16,18	11	17	20		
7PJ7L8	GlobalFiler™					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	
7R4ZFM	GlobalFiler™ Express					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	
7XHLG8	PowerPlex® Fusion 6C (STRmix)					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		
7YMBKF	GlobalFiler™ (STRmix)					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	
829LND	GlobalFiler™ Express					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			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 1 - STR Results

84ZBG8 — GlobalFiler™ Express

Item	D1S1656/...	...	...	...	...	...
1	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

8NLBHV — GlobalFiler™ Direct

Item						
1	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

8RG4A6 — PowerPlex® Fusion 5C

Item						
1	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12		6,6	8,8
	16,18	11				

8RN4HL — PowerPlex® 21

Item						
1	16.3,18.3	16,25		15,16	9,12	12,18
	9,11	13,13		18,18	11,12	12,13
	14,15	14,15	29,30		X,Y	10,10
	19,24	12,12	7,12		6,6	8,8
	16,18					

8U96D9 — Investigator® 24plex QS

Item						
1	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

8UQ4EC — GlobalFiler™

Item						
1	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

8XYLDZ — PowerPlex® Fusion 6c

Item						
1	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		

TABLE 1

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

924F6H — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

Item 1

964QZH — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

Item 1

98R896 — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

Item 1

98VMPC — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

Item 1

9PTWK3 — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

Item 1

9XQHXV — GlobalFiler™ Direct (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

Item 1

9YGV4K — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

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

A3WR3V PowerPlex® Fusion 5C — Item 1

D1S1656/…	D2S1338/…	D2S441/…	D3S1358/…	D5S818/…	D6S1043/…
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

A48J86 GlobalFiler™ (TrueAllele) — Item 1

D1S1656/…	D2S1338/…	D2S441/…	D3S1358/…	D5S818/…	D6S1043/…
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

A6GTXG PowerPlex® Fusion 5C — Item 1

D1S1656/…	D2S1338/…	D2S441/…	D3S1358/…	D5S818/…	D6S1043/…
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

A6LYPD GlobalFiler™ (STRmix) — Item 1

D1S1656/…	D2S1338/…	D2S441/…	D3S1358/…	D5S818/…	D6S1043/…
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

A8RGN9 PowerPlex® Fusion 6C (STRmix) — Item 1

D1S1656/…	D2S1338/…	D2S441/…	D3S1358/…	D5S818/…	D6S1043/…
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

AAE2QR PowerPlex® Fusion 6C (STRmix V2.5.11) — Item 1

D1S1656/…	D2S1338/…	D2S441/…	D3S1358/…	D5S818/…	D6S1043/…
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12	17,31.2	6,6	8,8
16,18	11	17	20		

AB9PC9 PowerPlex® Fusion 6C (STRmix) — Item 1

D1S1656/…	D2S1338/…	D2S441/…	D3S1358/…	D5S818/…	D6S1043/…
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

TABLE 1

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

AE23CX — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

AJ4RDJ — PowerPlex® 5c

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

AJWR63 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	-
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	-	-	17,31.2	6,6	8,8
	16,18	11	-	-	2	

AUY8U8 — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12	17,31.2	6,6	8,8
	16,18	11	17	20		

AYVLNP — GlobalFiler™ Direct

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

B62FK7 — GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

B7TKQX — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			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 1 - STR Results

BDB8M9 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

Item: 1

BF2728 — PowerPlex® Fusion 6C (STRMix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

Item: 1

BRAZ76 — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

Item: 1

BUFEZP — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

Item: 1

C4EHG6 — Identifiler®

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,25		15,16	9,12	
9,11	13,13			11,12	12,13
14,15	14,15	29,30		X,Y	10,10
19,24				6,6	8,8
16,18					

Item: 1

CBJ99B — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

Item: 1

CFD6VF — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

Item: 1

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

CG76MZ — Investigator® 24plex GO

	16.3,18.3	16,25	10,11	15,16	9,12	N/A
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	N/A	N/A	17,31.2	6,6	8,8
	16,18	11	N/A	N/A	N/A	

CYN7FG — GlobalFiler™ Express

	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

D2KFGU — GlobalFiler™ RapidHIT

	13.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

D3FUDY — GlobalFiler™

	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

D3MVMF — PowerPlex® Fusion 5C

	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

D74233 — Investigator® 24plex GO!

	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11				

DG33E8 — PowerPlex® Fusion 6C

	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12	17,31.2	6,6	8,8
	16,18	11	17	20		

TABLE 1

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

DKHKHA GlobalFiler™ (STRmix)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

DWWHPY PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		

DYMJT2 GlobalFiler™ Express

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

EAHCEX GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

EC46ZZ NGM SElect

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16		
1		13,13	13,14	18,18		12,13
	14,15	14,15	29,30	15,15	X,Y	
	19,24			17,31.2	6,6	
	16,18					

EDFX4E PowerPlex® Fusion

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

EGFT2W PowerPlex® Fusion

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

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 1 - STR Results

EGZL6E — NGM SElect — 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
16.3,18.3	16,25	10,11	15,16		
	13	13,14	18		12,13
14,15	14,15	29,30	15	X,Y	
19,24			17,31.2	6	
16,18					

EHTKVY — PowerPlex® Fusion 5C — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

ERY83D — 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
16.3,18.3	16,25		15,16	9,12	12,18
9,11	13		18	11,12	12,13
14,15	14,15	29,30		X,Y	10
19,24	12	7,12		6	8
16,18					

EXL7HD — 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
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

EYF7AX — 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
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

F8T8GJ — 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
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

F9YPFF — 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
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

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 1 - STR Results

FE9XUX PowerPlex® Fusion 5C

D1S1656 etc.					
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

FMHKMY PowerPlex® Fusion 5C

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

FND6AX PowerPlex® Fusion 5C

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

FW7FKT PowerPlex® Fusion

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

GFEVJZ GlobalFiler™

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

GFFLXV PowerPlex® Fusion 6C

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

GH7WM3 Investigator® 24plex QS

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11				

TABLE 1

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

Item 1 - STR Results

H3HBDT — Investigator® 24plex QS

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
1	16.3,18.3	16,25	10,11	15,16	9,12	N/A
	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	N/A	N/A	17,31.2	6,6	8,8
	16,18	11	N/A	N/A	N/A	

H3PBLA — PowerPlex® Fusion

Item						
1	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

HAL9AC — PowerPlex® Fusion 6C

Item						
1	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12	17,31.2	6,6	8,8
	16,18	11	17	20		

HCANGY — Investigator® 24plex GO

Item						
1	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11				

HG4QGR — Investigator® 24plex QS

Item						
1	16.3,18.3	16,25	10,11	15,16	9,12	N/A
	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	N/A	N/A	17,31.2	6,6	8,8
	16,18	11	N/A	N/A	N/A	

HJX84M — GlobalFiler™ (STRmix)

Item						
1	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

J77ZLC — PowerPlex® Fusion 5C

Item						
1	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

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 1 - STR Results

J9P2FY — PowerPlex® Fusion, ESX17, VERIFILER Plus

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
	16.3,18.3	16,25	10,11	15,16	9,12	12,18
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12	17,31.2	6,6	8,8
	16,18	11			2	

J9U89U — 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
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		

JEG8FU — GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

JFMTNT — GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

JFUUXA — PowerPlex® Fusion 5c

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

JHU32J — GlobalFiler™ Direct

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
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

JK32CR — Investigator® 24plex QS

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
	16.3,18.3	16,25	10,11	15,16	9,12	N/A
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	N/A	N/A	17,31.2	6,6	8,8
	16,18	11	N/A	N/A	N/A	

TABLE 1

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

Item 1 - STR Results

JNNYTV — 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
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

JYMJ6W — GlobalFiler™ (Genemapper ID-x) — 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
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

KGBPN7 — 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
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

KHFVF3 — GlobalFiler™ (STRmix) — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

KLCG86 — 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
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

KN4HB8 — PowerPlex® Fusion 5C — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

KRGFHU — 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
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

TABLE 1

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

Item 1 - STR Results

KWU2PF GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

Item: 1

KWVXZC PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

Item: 1

KYXW9J GlobalFiler™ Direct

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

Item: 1

L4QFRT GlobalFiler™ Express

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

Item: 1

LGXBZW PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

Item: 1

LPKD26 PowerPlex® 21, Verifiler Plus

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	12,18
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18				2	

Item: 1

M8MLLP PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

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

MB23VU	GlobalFiler™					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	
MCXNHT	Identifiler® Plus					
		16,25		15,16	9,12	
1	9,11	13,13			11,12	12,13
	14,15	14,15	29,30		X,Y	10,10
	19,24				6,6	8,8
	16,18					
MLPRZU	PowerPlex® Fusion 6C					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		
MNTMHC	GlobalFiler™ Direct					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	
MNUKT8	PowerPlex® Fusion 6C					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		
MP3VMQ	PowerPlex® Fusion 6C					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		
MQHREP	GlobalFiler™					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

TABLE 1

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

Item 1 - STR Results

MRTWN8   PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

(Item 1)

MUH3BP   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

(Item 1)

MXXKJU   Investigator® 24plex IQS

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11				

(Item 1)

N6WJEF   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

(Item 1)

NB2FZ2   GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

(Item 1)

NFBNEK   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

(Item 1)

NT34QZ   GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

(Item 1)

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

NTXXY6 — GlobalFiler™ Express

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

Item: 1

P2QEEZ — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

Item: 1

PNJEHM — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

Item: 1

PNY2RP — GlobalFiler™ (Genemapper ID-x)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

Item: 1

PQ9UWP — GlobalFiler™ Express

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

Item: 1

PQBQ3E — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

Item: 1

PQHVHH — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

Item: 1

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 1 - STR Results

PRJNRP — Investigator® 24plex QS — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11				

PTZVZR — PowerPlex® Fusion 6C (STRmix) — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

PV3UD7 — PowerPlex® 21 — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25		15,16	9,12	12,18
9,11	13,13		18,18	11,12	12,13
14,15	14,15	29,30		X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18					

PVLF4B — GlobalFiler™ Direct — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

PZZFZ3 — PowerPlex® Fusion — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

Q8A2LB — GlobalFiler™ Direct (STRmix) — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

QDZDNY — PowerPlex® Fusion — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

TABLE 1

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

Item 1 - STR Results

QQPAMC — GlobalFiler™ Direct — Item 1

D1S1656/...	D2S1338/...	D2S441/...	D3S1358/...	D5S818/...	D6S1043/...
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

QRH7C7 — PowerPlex® Fusion — Item 1

D1S1656/...	D2S1338/...	D2S441/...	D3S1358/...	D5S818/...	D6S1043/...
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

QVGQQP — Identifiler® Plus — Item 1

D1S1656/...	D2S1338/...	D2S441/...	D3S1358/...	D5S818/...	D6S1043/...
	16,25		15,16	9,12	
9,11	13,13			11,12	12,13
14,15	14,15	29,30		X,Y	10,10
19,24				6,6	8,8
16,18					

QZTEQL — Investigator® 24plex QS — Item 1

D1S1656/...	D2S1338/...	D2S441/...	D3S1358/...	D5S818/...	D6S1043/...
16.3,18.3	16,25	10,11	15,16	9,12	N/A
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	N/A	N/A	17,31.2	6,6	8,8
16,18	11	N/A	N/A	N/A	

R3WFFP — PowerPlex® Fusion 6C — Item 1

D1S1656/...	D2S1338/...	D2S441/...	D3S1358/...	D5S818/...	D6S1043/...
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

R4UTXC — GlobalFiler™, ArgusX — Item 1

D1S1656/...	D2S1338/...	D2S441/...	D3S1358/...	D5S818/...	D6S1043/...
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

R7U7DN — Investigator® 24plex — Item 1

D1S1656/...	D2S1338/...	D2S441/...	D3S1358/...	D5S818/...	D6S1043/...
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11				

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

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
R7XNJZ PowerPlex® Fusion						
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				
R89Q7Y GlobalFiler™						
	16.3,18.3	16,25	10,11	15,16	9,12	--
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	--	--	17,31.2	6,6	8,8
	16,18	11	--	--	2	
R9GPEL PowerPlex® Fusion 5C						
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12		6,6	8,8
	16,18	11				
R9NPM3 PowerPlex® Fusion 5C						
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				
RAYRA2 PowerPlex® Fusion						
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				
RCNYUX PowerPlex® Fusion 5C						
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				
RGWGRQ PowerPlex® Fusion 6C (STRmix)						
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		

TABLE 1

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

RLA3YC   GlobalFiler™ Direct (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

RTPZ8W   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	--
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	--	--	17,31.2	6,6	8,8
16,18	11	--	--	2	

RZVH3C   GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

T79RMQ   PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

T8NANB   GlobalFiler™ Direct

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

TBHD7G   PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

TEHGZP   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			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 1 - STR Results

THKFG9 — GlobalFiler™ Direct (STRmix) — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

TK6BXM — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

TPKJLL — PowerPlex® Fusion 5C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

TTJZXF — PowerPlex® Fusion — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

TWHCUF — PowerPlex® Fusion 5C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

TWPC3W — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

U36KEX — GlobalFiler™ Express — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			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 1 - STR Results

U3AQ7U — GlobalFiler™ (STRmix)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

U6WTPM — PowerPlex® Fusion 6C (STRmix)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

U8HCR6 — GlobalFiler™ Direct

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

UAADV9 — GlobalFiler™ Direct (STRmix)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

UCUACL — PowerPlex® Fusion

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

UJAYZL — GlobalFiler™ Express

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

VA3JRT — GlobalFiler™ (STRmix)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			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 1 - STR Results

VAJUAX — 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
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

VF8MF7 — 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
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

VKNPQH — 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
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

VMQR7K — 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
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

VV6JVJ — 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
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

VV84RY — PowerPlex® Fusion 5C — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

VVZ4JH — GlobalFiler™ CASEWORK — 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
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

TABLE 1

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

Item 1 - STR Results

	D1S1656 / etc	D2S1338	D2S441	D3S1358	D5S818	D6S1043
VY3TBR	GlobalFiler™ (STRmix)					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	
W3TV4G	PowerPlex® Fusion					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12		6,6	8,8
	16,18	11				
W6KUHF	GlobalFiler™					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	
W6RURW	PowerPlex® Fusion					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				
W7T8ZG	PowerPlex® Fusion					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12		6,6	8,8
	16,18	11				
WFL9P8	GlobalFiler™					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	
WTCXQY	GlobalFiler™					
	16.3,18.3	16,25	10,11	15,16	9,12	
1	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11,11			2,2	

TABLE 1

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

WUNM4J — Investigator® 24plex IQS (Item 1)

D1S1656 / ...					
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11				

WVFVXK — PowerPlex® Fusion 6C (STRmix) (Item 1)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

XCKMCV — PowerPlex® Fusion (Item 1)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

XRWX6N — GlobalFiler™ (STRmix) (Item 1)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

XUPUUH — GlobalFiler™ (Item 1)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

XXLDVG — GlobalFiler™ Express (Item 1)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

Y6UJWC — Investigator® 24plex QS (Item 1)

16.3,18.3	16,25	10,11	15,16	9,12	N/A
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	N/A	N/A	17,31.2	6,6	8,8
16,18	11	N/A	N/A	N/A	

TABLE 1

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

Item 1 - STR Results

Y82X4H — PowerPlex® Fusion 5C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

Y874VE — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

YAUL9T — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

YE7NVN — GlobalFiler™ (STRmix) (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

YGQPQB — PowerPlex® Fusion (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

YP2QBB — PowerPlex® Fusion (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

YUXLWJ — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

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

Z36K4Y — GlobalFiler™ Direct — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

Z4XHAK — GlobalFiler™ Express — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

Z8GHNF — Identifiler® — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,25		15,16	9,12	
9,11	13,13			11,12	12,13
14,15	14,15	29,30		X,Y	10,10
19,24				6,6	8,8
16,18					

ZCRJV6 — GlobalFiler™ (STRmix) — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

ZEZWGD — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

ZMVVTK — PowerPlex® Fusion 6C (STRmix) — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

ZN99VV — PowerPlex® Fusion — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

TABLE 1

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

Item 1 - STR Results

ZR8KTG   GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

ZZJZ2G   PowerPlex® Fusion 6C   (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		

TABLE 1

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

2CARJY — GlobalFiler™

Item						
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23			19,28.2	6,6	8,8
	17,18					

2CBPUV — PowerPlex® Fusion

Item						
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18		6	8
	17,18					

2EUQPG — GlobalFiler™ (Genemapper ID-X v. 1.5)

Item						
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23			19,28.2	6,6	8,8
	17,18					

2LWYVA — Investigator® 24plex QS

Item						
	13,17.3	20,23	11,14	15,17	9,12	N/A
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23	N/A	N/A	19,28.2	6,6	8,8
	17,18	N/A	N/A	N/A	N/A	

2MRFCD — GlobalFiler™

Item						
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					

2PDDNA — PowerPlex® Fusion 6C

Item						
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18	19,28.2	6	8
	17,18					

34VAJD — PowerPlex® Fusion 5C

Item						
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23	12,13	13,18		6,6	8,8
	17,18					

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

3M82G9 — PowerPlex® Fusion 5C (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
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18	NR				

3PCPYJ — GlobalFiler™ Express (Item 2)

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

42GHPM — GlobalFiler™ (Item 2)

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18	--			--	

466PDP — GlobalFiler™ (STRmix) (Item 2)

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18					

46YP69 — GlobalFiler™ (Item 2)

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18	NR			NR	

4E4E3D — Identifiler® Plus (Item 2)

	20,23		15,17	9,12	
8,12	13,16			10,12	12,13
14,18	14,15	31,32.2		X,X	10,11
20,23				6,6	8,8
17,18					

4ERV62 — GlobalFiler™, ArgusX (Item 2)

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

TABLE 1

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

Item 2 - STR Results

4F2ZKB — GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23			19,28.2	6,6	8,8
	17,18	NR			NR	

4FH446 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23			19,28.2	6	8
	17,18	NM			NM	

4GGZ2F — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18	19,28.2	6	8
	17,18					

4RUGAC — PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18	19,28.2	6	8
	17,18					

4WNDWH — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					

6ATW8H — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					

6E4X4L — GlobalFiler™, VerifilerPlus, PowerPlex® CS7

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	14,19
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18	19,28.2	6	8
	17,18					

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

6HNYAU — GlobalFiler™ Direct — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

6R969J — GlobalFiler™ (STRmix) — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

6UZ7AZ — PowerPlex® Fusion 5C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

6W3CHE — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	12,13	13,18	19,28.2	6,6	8,8
17,18					

6W6UPQ — PowerPlex® Fusion 5C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	12,13	13,18		6,6	8,8
17,18					

6WJ84M — PowerPlex® Fusion 5C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18	NR				

72E89A — GlobalFiler™ Express — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18	NR			NR	

TABLE 1

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

Item 2 - STR Results

774WK8 — PowerPlex® Fusion 5C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	12,13	13,18		6,6	8,8
17,18					

79EUXN — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18	19,28.2	6	8
17,18					

7ANQFL — GlobalFiler™ Express (STRmix) — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18	No Results			No Results	

7CBD39 — GlobalFiler™ Express — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18	No Result			No Result	

7D9QLU — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

7G4M29 — PowerPlex® Fusion 5C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	12,13	13,18		6,6	8,8
17,18					

7G769J — GlobalFiler™ (STRmix) — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

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

7GQVBC — PowerPlex® Fusion 6C

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	12,13	13,18	19,28.2	6,6	8,8
17,18					

7PJ7L8 — GlobalFiler™

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18	NR			NR	

7R4ZFM — GlobalFiler™ Express

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

7XHLG8 — PowerPlex® Fusion 6C (STRmix)

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18	19,28.2	6	8
17,18					

7YMBKF — GlobalFiler™ (STRmix)

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

829LND — GlobalFiler™ Express

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18	No results			No results	

84ZBG8 — GlobalFiler™ Express

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18	NR			NR	

TABLE 1

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

Item 2 - STR Results

8NLBHV GlobalFiler™ Direct (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

8RG4A6 PowerPlex® Fusion 5C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	12,13	13,18		6,6	8,8
17,18					

8RN4HL PowerPlex® 21 (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23		15,17	9,12	14,19
8,12	13,16		17,18	10,12	12,13
14,18	14,15	31,32.2		X,X	10,11
20,23	12,13	13,18		6,6	8,8
17,18					

8U96D9 Investigator® 24plex QS (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18					

8UQ4EC GlobalFiler™ (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

8XYLDZ PowerPlex® Fusion 6c (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18	19,28.2	6	8
17,18					

924F6H PowerPlex® Fusion (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

TABLE 1

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

Item 2 - STR Results

964QZH PowerPlex® Fusion

Item 2	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18		6	8
	17,18					

98R896 PowerPlex® Fusion 5C

Item 2	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23	12,13	13,18		6,6	8,8
	17,18					

98VMPC PowerPlex® Fusion 6C

Item 2	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18	19,28.2	6	8
	17,18					

9PTWK3 PowerPlex® Fusion

Item 2	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18		6	8
	17,18	NR				

9XQHXV GlobalFiler™ Direct (STRmix)

Item 2	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					

9YGV4K GlobalFiler™

Item 2	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					

A3WR3V PowerPlex® Fusion 5C

Item 2	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18		6	8
	17,18					

TABLE 1

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

Item 2 - STR Results

A48J86	GlobalFiler™ (TrueAllele)					
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					
A6GTXG	PowerPlex® Fusion 5C					
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18		6	8
	17,18	NR				
A6LYPD	GlobalFiler™ (STRmix)					
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					
A8RGN9	PowerPlex® Fusion 6C (STRmix)					
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18	19,28.2	6	8
	17,18					
AAE2QR	PowerPlex® Fusion 6C (STRmix V2.5.11)					
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23	12,13	13,18	19,28.2	6,6	8,8
	17,18	ND	ND	ND		
AB9PC9	PowerPlex® Fusion 6C					
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18	19,28.2	6	8
	17,18					
AE23CX	GlobalFiler™					
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23			19,28.2	6,6	8,8
	17,18					

TABLE 1

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

Item 2 - STR Results

AJ4RDJ — PowerPlex® 5c — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

AJWR63 — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	-
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	-	-	19,28.2	6,6	8,8
17,18	-	-	-	-	

AUY8U8 — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	12,13	13,18	19,28.2	6,6	8,8
17,18					

AYVLNP — GlobalFiler™ Direct — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

B62FK7 — GlobalFiler™ Express — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18	NR			NR	

B7TKQX — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6	8
17,18	NM			NM	

BDB8M9 — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18	-			-	

TABLE 1

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

Item 2 - STR Results

BF2728 PowerPlex® Fusion 6C (STRMix)

13,17.3	20,23	11,14	15,17	9,12	
2 8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18	19,28.2	6	8
17,18					

BRAZ76 PowerPlex® Fusion 6C (STRmix)

13,17.3	20,23	11,14	15,17	9,12	
2 8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18	19,28.2	6	8
17,18					

BUFEZP GlobalFiler™

13,17.3	20,23	11,14	15,17	9,12	
2 8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

C4EHG6 Identifiler®

	20,23		15,17	9,12	
2 8,12	13,16			10,12	12,13
14,18	14,15	31,32.2		X,X	10,11
20,23				6,6	8,8
17,18					

CBJ99B GlobalFiler™ (STRmix)

13,17.3	20,23	11,14	15,17	9,12	
2 8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

CFD6VF PowerPlex® Fusion

13,17.3	20,23	11,14	15,17	9,12	
2 8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

CG76MZ Investigator® 24plex GO

13,17.3	20,23	11,14	15,17	9,12	N/A
2 8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	N/A	N/A	19,28.2	6,6	8,8
17,18	N/A	N/A	N/A	N/A	

TABLE 1

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

Item 2 - STR Results

CYN7FG — GlobalFiler™ Express — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18	no results			no results	

D2KFGU — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18				X,X	

D3FUDY — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6	8
17,18	NM			NM	

D3MVMF — PowerPlex® Fusion 5C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

D74233 — Investigator® 24plex GO! — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18					

DG33E8 — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	12,13	13,18	19,28.2	6,6	8,8
17,18					

DKHKHA — GlobalFiler™ (STRmix) — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

TABLE 1

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

Item 2 - STR Results

DWWHPY — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18	19,28.2	6	8
17,18					

DYMJT2 — GlobalFiler™ Express — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18	NR			NR	

EAHCEX — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

EC46ZZ — NGM SElect — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17		
	13,16	15,18	17,18		12,13
14,18	14,15	31,32.2	15,16	X,X	
20,23			19,28.2	6,6	
17,18					

EDFX4E — PowerPlex® Fusion — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

EGFT2W — PowerPlex® Fusion — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18	NR				

EGZL6E — NGM SElect — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17		
	13,16	15,18	17,18		12,13
14,18	14,15	31,32.2	15,16	X	
20,23			19,28.2	6	
17,18					

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

EHTKVY — PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23	12,13	13,18		6,6	8,8
	17,18					

ERY83D — PowerPlex® 21

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23		15,17	9,12	14,19
2	8,12	13,16		17,18	10,12	12,13
	14,18	14,15	31,32.2		X	10,11
	20,23	12,13	13,18		6	8
	17,18					

EXL7HD — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18		6	8
	17,18					

EYF7AX — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23			19,28.2	6	8
	17,18	NM			NM	

F8T8GJ — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					

F9YPFF — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18		6	8
	17,18					

FE9XUX — PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23	12,13	13,18		6,6	8,8
	17,18					

TABLE 1

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

Item 2 - STR Results

FMHKMY — PowerPlex® Fusion 5C — 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
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	12,13	13,18		6,6	8,8
17,18					

FND6AX — PowerPlex® Fusion 5C — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	12,13	13,18		6,6	8,8
17,18					

FW7FKT — PowerPlex® Fusion — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18	NR				

GFEVJZ — GlobalFiler™ — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18	NR			NR	

GFFLXV — PowerPlex® Fusion 6C — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18	19,28.2	6	8
17,18					

GH7WM3 — Investigator® 24plex QS — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18					

H3HBDT — Investigator® 24plex QS — Item 2

13,17.3	20,23	11,14	15,17	9,12	N/A
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	N/A	N/A	19,28.2	6,6	8,8
17,18	N/A	N/A	N/A	N/A	

TABLE 1

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

Item 2 - STR Results

H3PBLA — PowerPlex® Fusion

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

HAL9AC — PowerPlex® Fusion 6C

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	12,13	13,18	19,28.2	6,6	8,8
17,18					

HCANGY — Investigator® 24plex GO

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18					

HG4QGR — Investigator® 24plex QS

13,17.3	20,23	11,14	15,17	9,12	N/A
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	N/A	N/A	19,28.2	6,6	8,8
17,18	N/A	N/A	N/A	N/A	

HJX84M — GlobalFiler™ (STRmix)

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

J77ZLC — PowerPlex® Fusion 5C

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

J9P2FY — PowerPlex® Fusion, ESX17, VERIFILER Plus

13,17.3	20,23	11,14	15,17	9,12	14,19
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	12,13	13,18	19,28.2	6,6	8,8
17,18	NA			NA	

TABLE 1

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

Item 2 - STR Results

J9U89U — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18	19,28.2	6	8
17,18					

JEG8FU — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18	NR			NR	

JFMTNT — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6	8
17,18	NM			NM	

JFUUXA — PowerPlex® Fusion 5c — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

JHU32J — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

JK32CR — Investigator® 24plex QS — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	N/A
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	N/A	N/A	19,28.2	6,6	8,8
17,18	N/A	N/A	N/A	N/A	

JNNYTV — GlobalFiler™ Express — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18	NR			NR	

TABLE 1

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

Item 2 - STR Results

JYMJ6W — GlobalFiler™ (Genemapper ID-x) — 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
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

KGBPN7 — 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
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18	NR				

KHFVF3 — 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
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

KLCG86 — 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
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

KN4HB8 — PowerPlex® Fusion 5C — 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
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

KRGFHU — 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
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

KWU2PF — 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
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

TABLE 1

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

Item 2 - STR Results

KWVXZC — PowerPlex® Fusion 5C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

KYXW9J — GlobalFiler™ Direct (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

L4QFRT — GlobalFiler™ Express (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18	NR			NR	

LGXBZW — PowerPlex® Fusion 5C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

LPKD26 — PowerPlex® 21, Verifiler Plus (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	14,19
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

M8MLLP — PowerPlex® Fusion 6C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18	19,28.2	6	8
17,18					

MB23VU — GlobalFiler™ (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18	NR			NR	

TABLE 1

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

Item 2 - STR Results

MCXNHT — Identifiler® Plus — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	20,23		15,17	9,12	
8,12	13,16			10,12	12,13
14,18	14,15	31,32.2		X,X	10,11
20,23				6,6	8,8
17,18					

MLPRZU — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18	19,28.2	6	8
17,18					

MNTMHC — GlobalFiler™ Direct — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

MNUKT8 — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18	19,28.2	6	8
17,18					

MP3VMQ — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18	19,28.2	6	8
17,18					

MQHREP — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

MRTWN8 — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18	19,28.2	6	8
17,18					

TABLE 1

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

Item 2 - STR Results

MUH3BP — 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
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

MXXKJU — Investigator® 24plex IQS — 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
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18					

N6WJEF — 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
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

NB2FZ2 — 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
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

NFBNEK — 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
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

NT34QZ — 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
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

NTXXY6 — GlobalFiler™ Express — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

TABLE 1

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

Item 2 - STR Results

P2QEEZ — GlobalFiler™ (STRmix)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					

PNJEHM — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23			19,28.2	6	8
	17,18	NM			NM	

PNY2RP — GlobalFiler™ (Genemapper ID-x)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					

PQ9UWP — GlobalFiler™ Express

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23			19,28.2	6,6	8,8
	17,18	NR			NR	

PQBQ3E — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					

PQHVHH — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23			19,28.2	6,6	8,8
	17,18					

PRJNRP — Investigator® 24plex QS

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23			19,28.2	6,6	8,8
	17,18					

TABLE 1

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

Item 2 - STR Results

PTZVZR	PowerPlex® Fusion 6C (STRmix)					
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18	19,28.2	6	8
	17,18					
PV3UD7	PowerPlex® 21					
	13,17.3	20,23		15,17	9,12	14,19
2	8,12	13,16		17,18	10,12	12,13
	14,18	14,15	31,32.2		X,X	10,11
	20,23	12,13	13,18		6,6	8,8
	17,18					
PVLF4B	GlobalFiler™ Direct					
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					
PZZFZ3	PowerPlex® Fusion					
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18		6	8
	17,18					
Q8A2LB	GlobalFiler™ Direct (STRmix)					
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					
QDZDNY	PowerPlex® Fusion					
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18		6	8
	17,18					
QQPAMC	GlobalFiler™ Direct					
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					

TABLE 1

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

Item 2 - STR Results

QRH7C7 — PowerPlex® Fusion — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

QVGQQP — Identifiler® Plus — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	20,23		15,17	9,12	
8,12	13,16			10,12	12,13
14,18	14,15	31,32.2		X,X	10,11
20,23				6,6	8,8
17,18					

QZTEQL — Investigator® 24plex QS — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	N/A
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	N/A	N/A	19,28.2	6,6	8,8
17,18	N/A	N/A	N/A	N/A	

R3WFFP — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18	19,28.2	6	8
17,18					

R4UTXC — GlobalFiler™, ArgusX — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

R7U7DN — Investigator® 24plex — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18					

R7XNJZ — PowerPlex® Fusion — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

TABLE 1

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

Item 2 - STR Results

R89Q7Y — 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
13,17.3	20,23	11,14	15,17	9,12	--
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	--	--	19,28.2	6,6	8,8
17,18	--	--	--	--	

R9GPEL — PowerPlex® Fusion 5C — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	12,13	13,18		6,6	8,8
17,18					

R9NPM3 — PowerPlex® Fusion 5C — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

RAYRA2 — PowerPlex® Fusion — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

RCNYUX — PowerPlex® Fusion 5C — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

RGWGRQ — PowerPlex® Fusion 6C (STRmix) — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18	19,28.2	6	8
17,18					

RLA3YC — GlobalFiler™ Direct (STRmix) — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

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

RTPZ8W — GlobalFiler™ — Item 2

D1/D7/D18/FGA/vWA	D2	D2S441/D10/D21/PentaE/DYS570	D3/D12/D22/SE33/DYS576	D5/D13/Amel/TH01/Y Indel	D6/D16/CSF1PO/TPOX
13,17.3	20,23	11,14	15,17	9,12	--
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	--	--	19,28.2	6,6	8,8
17,18	--	--	--	--	

RZVH3C — GlobalFiler™ (STRmix) — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

T79RMQ — PowerPlex® Fusion — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

T8NANB — GlobalFiler™ Direct — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

TBHD7G — PowerPlex® Fusion — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18	NR				

TEHGZP — GlobalFiler™ — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

THKFG9 — GlobalFiler™ Direct (STRmix) — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

TABLE 1

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

Item 2 - STR Results

TK6BXM   PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18	19,28.2	6	8
	17,18					

TPKJLL   PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23	12,13	13,18		6,6	8,8
	17,18					

TTJZXF   PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18		6	8
	17,18	NR				

TWHCUF   PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18		6	8
	17,18	NR				

TWPC3W   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23			19,28.2	6,6	8,8
	17,18	--			--	

U36KEX   GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					

U3AQ7U   GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					

TABLE 1

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

Item 2 - STR Results

U6WTPM — PowerPlex® Fusion 6C (STRmix) — Item 2

D1S1656 / ...	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18	19,28.2	6	8
17,18					

U8HCR6 — GlobalFiler™ Direct — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

UAADV9 — GlobalFiler™ Direct (STRmix) — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

UCUACL — PowerPlex® Fusion — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	12,13	13,18		6,6	8,8
17,18					

UJAYZL — GlobalFiler™ Express — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18	NR			NR	

VA3JRT — GlobalFiler™ (STRmix) — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

VAJUAX — GlobalFiler™ — Item 2

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

TABLE 1

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
WebCode						

WebCode   Amplification Kits (Probabilistic Genotyping Software)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

VF8MF7   GlobalFiler™   Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

VKNPQH   PowerPlex® Fusion 6C   Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18	19,28.2	6	8
17,18					

VMQR7K   GlobalFiler™   Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

VV6JVJ   GlobalFiler™   Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

VV84RY   PowerPlex® Fusion 5C   Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

VVZ4JH   GlobalFiler™ CASEWORK   Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18					

VY3TBR   GlobalFiler™ (STRmix)   Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

TABLE 1

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

Item 2 - STR Results

W3TV4G — PowerPlex® Fusion

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	12,13	13,18		6,6	8,8
17,18					

W6KUHF — GlobalFiler™

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6	8
17,18	NM			NM	

W6RURW — PowerPlex® Fusion

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

W7T8ZG — PowerPlex® Fusion

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	12,13	13,18		6,6	8,8
17,18					

WFL9P8 — GlobalFiler™

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

WTCXQY — GlobalFiler™

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18					

WUNM4J — Investigator® 24plex IQS

13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18					

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

WVFVXK — PowerPlex® Fusion 6C (STRmix) — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18	19,28.2	6	8
17,18					

XCKMCV — PowerPlex® Fusion — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23	12,13	13,18		6	8
17,18					

XRWX6N — GlobalFiler™ (STRmix) — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

XUPUUH — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X	10,11
20,23			19,28.2	6	8
17,18					

XXLDVG — GlobalFiler™ Express — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23			19,28.2	6,6	8,8
17,18	NR			NR	

Y6UJWC — Investigator® 24plex QS — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	N/A
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	N/A	N/A	19,28.2	6,6	8,8
17,18	N/A	N/A	N/A	N/A	

Y82X4H — PowerPlex® Fusion 5C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
13,17.3	20,23	11,14	15,17	9,12	
8,12	13,16	15,18	17,18	10,12	12,13
14,18	14,15	31,32.2	15,16	X,X	10,11
20,23	12,13	13,18		6,6	8,8
17,18					

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

Y874VE — PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18	19,28.2	6	8
	17,18					

YAUL9T — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23			19,28.2	6,6	8,8
	17,18					

YE7NVN — GlobalFiler™ (STRmix)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					

YGQPQB — PowerPlex® Fusion

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18		6	8
	17,18	NR				

YP2QBB — PowerPlex® Fusion

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18		6	8
	17,18	NR				

YUXLWJ — PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18	19,28.2	6	8
	17,18					

Z36K4Y — GlobalFiler™ Direct

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					

TABLE 1

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

Item 2 - STR Results

Z4XHAK — GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					

Z8GHNF — Identifiler®

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2		20,23		15,17	9,12	
	8,12	13,16			10,12	12,13
	14,18	14,15	31,32.2		X,X	10,11
	20,23				6,6	8,8
	17,18					

ZCRJV6 — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23			19,28.2	6	8
	17,18					

ZEZWGD — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18	19,28.2	6	8
	17,18					

ZMVVTK — PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18	19,28.2	6	8
	17,18					

ZN99VV — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18		6	8
	17,18					

ZR8KTG — GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	13,17.3	20,23	11,14	15,17	9,12	
	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X,X	10,11
	20,23			19,28.2	6,6	8,8
	17,18	NR			NR	

TABLE 1

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

Item 2 - STR Results

ZZJZ2G	PowerPlex® Fusion 6C (STRmix)					
	13,17.3	20,23	11,14	15,17	9,12	
2	8,12	13,16	15,18	17,18	10,12	12,13
	14,18	14,15	31,32.2	15,16	X	10,11
	20,23	12,13	13,18	19,28.2	6	8
	17,18					

TABLE 1

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

Item 3 - STR Results

6W3CHE   PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		

7GQVBC   PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		

8XYLDZ   PowerPlex® Fusion 6c

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		

AE23CX   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8,8
	16,17,18	11			2	

AUY8U8   PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		

D2KFGU   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16.3,17.3,18.3	14,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

DG33E8   PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		

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 3 - STR Results

EGZL6E — NGM SElect — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18		
	12,13	13,14	18,19,20		9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	
19,20,22,24			15,16,17,31.2	6,9.3	
16,17,18					

ERY83D — PowerPlex® 21 — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25		15,16,18	9,10,11,12	12,16,18
7,9,11	12,13		18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2		X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18					

J9P2FY — PowerPlex® Fusion, ESX17, VERIFILER Plus — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	12,16,18
7,9,11	12,13		18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8,8
16,17,18	11			2	

PQHVHH — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

TABLE 1

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

Item 3e - STR Results

2CARJY	GlobalFiler™ (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8,8
	16,17,18	11			2	
2CBPUV	PowerPlex® Fusion					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				
2EUQPG	GlobalFiler™ (Genemapper ID-X v. 1.5)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	
2LWYVA	Investigator® 24plex QS					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	N/A
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	N/A	N/A	15,16,17,31.2	6,9.3	8,8
	16,17,18	11	N/A	N/A	N/A	
2MRFCD	GlobalFiler™					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	
2PDDNA	PowerPlex® Fusion 6C					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		
34VAJD	PowerPlex® Fusion 5C					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8,8
	16,17,18	11				

TABLE 1

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

Item 3e - STR Results

3M82G9	PowerPlex® Fusion 5C					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				
3PCPYJ	GlobalFiler™ (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	
42GHPM	GlobalFiler™					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	
466PDP	GlobalFiler™ (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8,Q
	16,17,18	11			2	
46YP69	GlobalFiler™					
	16.3,17.3,[18.3]	16,17,20,25	10,11,14	15,[16],[18]	9,10,11,12	
3e	7,9,11	[12],13	13,[14]	18,19,[20]	9,11,12	9,[12],13
	13,14,15,16	[13],13.2,14,15	29,30,31.2,32.2	[11],15	X,Y	10,12
	19,20,22,[24]			15,16,17,31.2	6,[9.3]	8,8
	16,17,18	11			2	
4E4E3D	Identifiler® Plus					
		16,17,20,25		15,16,18	9,10,11,12	
3e	7,9,11	12,13			9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2		X,Y	10,12
	19,20,22,24				6,9.3	8,8
	16,17,18					
4F2ZKB	GlobalFiler™					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			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 3e - STR Results

4FH446 GlobalFiler™

Item						
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

4GGZ2F PowerPlex® Fusion 6C (STRmix)

Item						
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		

4RUGAC PowerPlex® Fusion 6C (STRmix)

Item						
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		

4WNDWH GlobalFiler™ (STRmix)

Item						
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

6ATW8H GlobalFiler™ (STRmix)

Item						
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

6E4X4L GlobalFiler™

Item						
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18					

6HNYAU GlobalFiler™ (STRmix)

Item						
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

TABLE 1

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

Item 3e - STR Results

6R969J — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

6UZ7AZ — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

6W6UPQ — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8,8
16,17,18	11				

6WJ84M — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

72E89A — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

774WK8 — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8,8
16,17,18	11				

79EUXN — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
16,17,18	11	17	18,20		

TABLE 1

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

7ANQFL — GlobalFiler™ (STRmix)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

7CBD39 — GlobalFiler™

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

7D9QLU — GlobalFiler™ (STRmix)

16.3,17.3,18.3,Q	16,17,20,25	10,11,14	15,16,18,Q	9,10,11,12	
7,9,11,Q	12,13,Q	13,14,Q	18,19,20,Q	9,11,12	9,12,13,Q
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15,Q	X,Y	10,12,Q
19,20,22,24			15,16,17,31.2	6,9.3,Q	8,Q
16,17,18,Q	11			2	

7G4M29 — PowerPlex® Fusion 5C

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8,8
16,17,18	11				

7G769J — GlobalFiler™ (STRmix)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

7PJ7L8 — GlobalFiler™

16.3,17.3,18.3	16,17,20,25	10,11,[14]	15,16,[18]	9,[10],11,12	
[7],[9],11	[12],13	13,[14]	18,[19],[20]	9,11,[12]	9,12,[13]
13,14,15,16	13,13.2,14,15	29,30,31.2,[32.2]	[11],15	X,[Y]	10,12
19,20,22,24			[15],16,17,31.2	6,[9.3]	8,8
16,17,18	11			2	

7R4ZFM — GlobalFiler™ (STRmix)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

TABLE 1

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

Item 3e - STR Results

7XHLG8	PowerPlex® Fusion 6C (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		
7YMBKF	GlobalFiler™ (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	
829LND	GlobalFiler™ (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	
84ZBG8	GlobalFiler™					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	
8NLBHV	GlobalFiler™ (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	
8RG4A6	PowerPlex® Fusion 5C					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8,8
	16,17,18	11				
8RN4HL	PowerPlex® 21 (STRmix)					
	16.3,17.3,18.3	16,17,20,25		15,16,18	9,10,11,12	12,16,18
3e	7,9,11	12,13		18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2		X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8,8
	16,17,18					

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 3e - STR Results

8U96D9 Investigator® 24plex QS

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11				

8UQ4EC GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

924F6H PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				

964QZH PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				

98R896 PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8,8
	16,17,18	11				

98VMPC PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		

9PTWK3 PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				

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 3e - STR Results

9XQHXV	GlobalFiler™ (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,17,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,11,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	
9YGV4K	GlobalFiler™ (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	
A3WR3V	PowerPlex® Fusion 5C					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				
A48J86	GlobalFiler™ (TrueAllele)					
	[16.3],17.3,[18.3]	[16],17,20,[25]	10,[11],14	15,[16],18	[9],10,11,[12]	
3e	7,[9],11	12,13	13,[14]	18,19,20	9,[11],[12]	9,[12],[13]
	13,[14],[15],16	13,13.2,[14],[15]	[29],[30],31.2,32.2	11,15	X,Y	[10],12
	[19],20,22,[24]			15,16,[17],[31.2]	6,9.3	8
	[16],17,[18]	11			2	
A6GTXG	PowerPlex® Fusion 5C					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				
A6LYPD	GlobalFiler™ (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	
A8RGN9	PowerPlex® Fusion 6C (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		

TABLE 1

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

AAE2QR PowerPlex® Fusion 6C (STRmix V2.5.11)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
16,17,18	11	17	18,20		

AB9PC9 PowerPlex® Fusion 6C (STRmix)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
16,17,18	11	17	18,20		

AJ4RDJ PowerPlex® 5c

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

AJWR63 GlobalFiler™

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	-
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	-	-	15,16,17,31.2	6,9.3	8
16,17,18	11	-	-	2	

AYVLNP GlobalFiler™ (STRmix)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	10,12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,11,12
19,20,22,24			15,16,17,29.2,31.2	6,9.3	8
16,17,18	11			2	

B62FK7 GlobalFiler™

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

B7TKQX GlobalFiler™

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

TABLE 1

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

Item 3e - STR Results

BDB8M9	GlobalFiler™					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	
BF2728	PowerPlex® Fusion 6C (STRMix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		
BRAZ76	PowerPlex® Fusion 6C (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		
BUFEZP	GlobalFiler™ (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	
C4EHG6	Identifiler®					
		16,17,20,25		15,16,18	9,10,11,12	
3e	7,9,11	12,13			9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2		X,Y	10,12
	19,20,22,24				6,9.3	8,8
	16,17,18					
CBJ99B	GlobalFiler™ (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	
CFD6VF	PowerPlex® Fusion					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				

TABLE 1

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

Item 3e - STR Results

CYN7FG	GlobalFiler™ (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

D3FUDY	GlobalFiler™					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

D3MVMF	PowerPlex® Fusion 5C					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				

D74233	Investigator® 24plex QS					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11				

DKHKHA	GlobalFiler™ (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

DWWHPY	PowerPlex® Fusion 6C					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		

DYMJT2	GlobalFiler™					
	[16.3],17.3,17.3,[18.3]	[16],17,20,[25]	10,[11],14	15,[16],18	[9],10,11,[12]	
3e	7,[9],11	12,13	13,13,[14]	[18],19,20	9,9,[11],[12]	9,9,[12],[13]
	13,[14],[15],16	13,13.2,[14],[15]	[29],[30],31.2,32.2	11,15	X,Y	[10],12,12
	[19],20,22,[24]			15,16,[17],[31.2]	6,9.3	8,8
	[16],17,17,[18]	11			2	

TABLE 1

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

Item 3e - STR Results

EAHCEX — GlobalFiler™ — 3e

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

EC46ZZ — NGM SElect — 3e

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18		
	12,13	13,14	18,19,20		9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	
19,20,22,24			15,16,17,31.2	6,9.3	
16,17,18					

EDFX4E — PowerPlex® Fusion — 3e

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

EGFT2W — PowerPlex® Fusion — 3e

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

EHTKVY — PowerPlex® Fusion 5C — 3e

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8,8
16,17,18	11				

EXL7HD — PowerPlex® Fusion — 3e

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

EYF7AX — GlobalFiler™ — 3e

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

TABLE 1

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

Item 3e - STR Results

F8T8GJ GlobalFiler™ (STRmix)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

F9YPFF PowerPlex® Fusion

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

FE9XUX PowerPlex® Fusion 5C

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8,8
16,17,18	11				

FMHKMY PowerPlex® Fusion 5C

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8,8
16,17,18	11				

FND6AX PowerPlex® Fusion 5C

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8,8
16,17,18	11				

FW7FKT PowerPlex® Fusion

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

GFEVJZ GlobalFiler™

16.3,17.3,18.3	16,[17],20,25	10,11,[14]	15,[16],[18]	9,[10],11,12	
[7],9,11	[12],13	13,[14]	18,[19],[20]	9,11,12	9,12,13
[13],14,15	[13],[13.2],14,15	29,30,31.2,32.2	[11],15	X,Y	10,[12]
19,20,[22],24			15,[16],17,31.2	6,[9.3]	8,8
16,17,18	11			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 3e - STR Results

GFFLXV   PowerPlex® Fusion 6C (STRmix 2.6.1)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		

GH7WM3   Investigator® 24plex QS

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11				

H3HBDT   Investigator® 24plex QS

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	N/A
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	N/A	N/A	15,16,17,31.2	6,9.3	8,8
	16,17,18	11	N/A	N/A	N/A	

H3PBLA   PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				

HAL9AC   PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8,8
	16,17,18	11	17	18,20		

HCANGY   Investigator® 24plex IQS

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11				

HG4QGR   Investigator® 24plex QS, FlexPlex27

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	N/A
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	N/A	N/A	15,16,17,31.2	6,9.3	8
	16,17,18	11	N/A	N/A	N/A	

TABLE 1

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

Item 3e - STR Results

HJX84M GlobalFiler™ (STRmix)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

J77ZLC PowerPlex® Fusion 5C

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

J9U89U PowerPlex® Fusion 6C (STRmix)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
16,17,18	11	17	18,20		

JEG8FU GlobalFiler™

16.3,17.3,18.3	16,17,20,25	10,11,[14]	15,[16],[18]	9,[10],[11],12	
[7],[9],11	[12],13	13,[14]	18,[19],[20]	9,11,12	9,12,13
13,14,15,[16]	13,13.2,14,15	29,30,31.2,32.2	[11],15	X,Y	10,12
19,20,[22],24			15,16,17,31.2	6,[9.3]	8,8
16,17,18	11			2	

JFMTNT GlobalFiler™

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

JFUUXA PowerPlex® Fusion 5c

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

JHU32J GlobalFiler™ (STRmix)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			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 3e - STR Results

JK32CR — Investigator® 24plex QS

3e					
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	N/A
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	N/A	N/A	15,16,17,31.2	6,9.3	8
16,17,18	11	N/A	N/A	N/A	

JNNYTV — GlobalFiler™

3e					
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

JYMJ6W — GlobalFiler™ (Genemapper ID-x)

3e					
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

KGBPN7 — PowerPlex® Fusion

3e					
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

KHFVF3 — GlobalFiler™ (STRmix)

3e					
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

KLCG86 — PowerPlex® Fusion

3e					
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

KN4HB8 — PowerPlex® Fusion 5C

3e					
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

TABLE 1

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

Item 3e - STR Results

KRGFHU — GlobalFiler™ (Item 3e)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,17.3,[18.3]	16,17,20,25	10,[11],[14]	15,[16],[18]	9,10,11,12	
[7],9,11	[12],13	13,[14]	18,[19],[20]	9,11,[12]	9,[12],13
13,14,15,[16]	13,13.2,14,15	29,30,31.2,32.2	[11],15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,[9.3]	8
[16],17,18	11			2	

KWU2PF — GlobalFiler™ (STRmix) (Item 3e)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

KWVXZC — PowerPlex® Fusion 5C (Item 3e)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

KYXW9J — GlobalFiler™ (STRmix) (Item 3e)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,11,12
19,20,22,24			14.2,15,16,17,31.2	6,9.3	8
16,17,18	11			2	

L4QFRT — GlobalFiler™ (Item 3e)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

LGXBZW — PowerPlex® Fusion 5C (Item 3e)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

LPKD26 — PowerPlex® 21, Verifiler Plus (Item 3e)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	12,16,18
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18				2	

TABLE 1

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

Item 3e - STR Results

M8MLLP PowerPlex® Fusion 6C

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
16,17,18	11	17	18,20		

3e

MB23VU GlobalFiler™

16.3,17.3,[18.3]	16,17,20,25	10,[11],[14]	15,[16],[18]	9,10,11,12	
[7],[9],11	[12],13	13,[14]	18,[19],[20]	9,11,[12]	9,[12],13
13,14,15,16	13,[13.2],14,15	29,30,31.2,32.2	[11],15	X,Y	10,12
19,20,22,24			[15],16,17,31.2	6,[9.3]	8,8
[16],17,[18]	11			2	

3e

MCXNHT Identifiler® Plus

	16,17,20,25		15,16,18	9,10,11,12	
7,9,11	12,13			9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2		X,Y	10,12
19,20,22,24				6,9.3	8,8
16,17,18					

3e

MLPRZU PowerPlex® Fusion 6C (STRmix)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
16,17,18	11	17	18,20		

3e

MNTMHC GlobalFiler™ (STRmix)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11,12	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2,32.2	6,9.3	8
16,17,18	11			2	

3e

MNUKT8 PowerPlex® Fusion 6C

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
16,17,18	11	17	18,20		

3e

MP3VMQ PowerPlex® Fusion 6C (STRmix)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
16,17,18	11	17	18,20		

3e

TABLE 1

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

Item 3e - STR Results

MQHREP	GlobalFiler™					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

MRTWN8	PowerPlex® Fusion 6C					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		

MUH3BP	GlobalFiler™					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

MXXKJU	Investigator® 24plex IQS					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11				

N6WJEF	GlobalFiler™ (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

NB2FZ2	GlobalFiler™ (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

NFBNEK	GlobalFiler™					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			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 3e - STR Results

NT34QZ	GlobalFiler™ (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

NTXXY6	GlobalFiler™ (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

P2QEEZ	GlobalFiler™ (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

PNJEHM	GlobalFiler™					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

PNY2RP	GlobalFiler™					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

PQ9UWP	GlobalFiler™					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

PQBQ3E	GlobalFiler™ (STRmix)					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3e	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

TABLE 1

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

Item 3e - STR Results

PRJNRP Investigator® 24plex QS

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11				

PTZVZR PowerPlex® Fusion 6C (STRmix)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		

PV3UD7 PowerPlex® 21 (STRmix)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25		15,16,18	9,10,11,12	12,16,18
	7,9,11	12,13		18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2		X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8,8
	16,17,18					

PVLF4B GlobalFiler™ (STRmix)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

PZZFZ3 PowerPlex® Fusion

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				

Q8A2LB GlobalFiler™ (STRmix)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25,26	10,11,14	15,16,18	9,10,11,12,13	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

QDZDNY PowerPlex® Fusion

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				

TABLE 1

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

Item 3e - STR Results

QQPAMC　GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,10,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

QRH7C7　PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				

QVGQQP　Identifiler® Plus

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e		16,17,20,25		15,16,18	9,10,11,12	
	7,9,11	12,13			9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2		X,Y	10,12
	19,20,22,24				6,9.3	8,8
	16,17,18					

QZTEQL　Investigator® 24plex QS

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	N/A
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	N/A	N/A	15,16,17,31.2	6,9.3	8
	16,17,18	11	N/A	N/A	N/A	

R3WFFP　PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		

R7U7DN　Investigator® 24plex

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11				

R7XNJZ　PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				

TABLE 1

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

Item 3e - STR Results

R89Q7Y　GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	--
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	--	--	15,16,17,31.2	6,9.3	8
	16,17,18	11	--	--	2	

R9GPEL　PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8,8
	16,17,18	11				

R9NPM3　PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				

RAYRA2　PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				

RCNYUX　PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				

RGWGRQ　PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		

RLA3YC　GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			14.2,15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

TABLE 1

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

Item 3e - STR Results

RTPZ8W GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	--	--	15,16,17,31.2	6,9.3	8,8
16,17,18	11	--	--	2	

RZVH3C GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

T79RMQ PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

T8NANB GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,19,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

TBHD7G PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

TEHGZP GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

THKFG9 GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,15.2,16,17,31.2	6,9.3	8
16,17,18	11			2	

TABLE 1

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

Item 3e - STR Results

TK6BXM PowerPlex® Fusion 6C (STRmix v2.9)

3e	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		

TPKJLL PowerPlex® Fusion 5C

3e						
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8,8
	16,17,18	11				

TTJZXF PowerPlex® Fusion

3e						
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				

TWHCUF PowerPlex® Fusion 5C

3e						
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				

TWPC3W GlobalFiler™

3e						
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

U36KEX GlobalFiler™ (STRmix)

3e						
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

U3AQ7U GlobalFiler™ (STRmix)

3e						
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

TABLE 1

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

Item 3e - STR Results

U6WTPM — PowerPlex® Fusion 6C (STRmix)

Item						
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		

U8HCR6 — GlobalFiler™ (STRmix)

Item						
3e	16.3,17.3,18.3	16,17,20,23,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,18,31.2	6,9.3	8
	16,17,18	11			2	

UAADV9 — GlobalFiler™ (STRmix)

Item						
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	10,12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,30.2,31.2	6,9.3	8
	16,17,18	11			2	

UCUACL — PowerPlex® Fusion

Item						
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8,8
	16,17,18	11				

UJAYZL — GlobalFiler™

Item						
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

VA3JRT — GlobalFiler™ (STRmix)

Item						
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

VAJUAX — GlobalFiler™ (STRmix)

Item						
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8,Q
	16,17,18	11			2	

TABLE 1

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

Item 3e - STR Results

VF8MF7 — GlobalFiler™ (STRmix)

17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

VKNPQH — PowerPlex® Fusion 6C (STRmix)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
16,17,18	11	17	18,20		

VMQR7K — GlobalFiler™

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

VV6JVJ — GlobalFiler™

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

VV84RY — PowerPlex® Fusion 5C

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

VVZ4JH — GlobalFiler™ CASEWORK

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8,8
16,17,18	11			2	

VY3TBR — GlobalFiler™ (STRmix)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			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 3e - STR Results

W3TV4G — PowerPlex® Fusion (Item 3e)

	D1S1656 etc.					
	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8,8
	16,17,18	11				

W6KUHF — GlobalFiler™ (Item 3e)

	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

W6RURW — PowerPlex® Fusion (Item 3e)

	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				

W7T8ZG — PowerPlex® Fusion (Item 3e)

	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8,8
	16,17,18	11				

WFL9P8 — GlobalFiler™ (STRmix) (Item 3e)

	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

WTCXQY — GlobalFiler™ (Item 3e)

	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

WUNM4J — Investigator® 24plex IQS (Item 3e)

	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11				

TABLE 1

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

Item 3e - STR Results

WVFVXK PowerPlex® Fusion 6C (STRmix)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
16,17,18	11	17	18,20		

XCKMCV PowerPlex® Fusion

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

XRWX6N GlobalFiler™ (STRmix)

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

XUPUUH GlobalFiler™

16.3,17.3,18.3	16,17,20,25	10,[11],[14]	15,[16],[18]	9,10,[11],12	
7,9,11	[12],13	13,[14]	18,[19],[20]	9,11,[12]	9,12,13
13,14,15,16	13,[13.2],14,15	29,30,31.2,[32.2]	[11],15	X,Y	10,12
19,[20],22,24			15,16,17,31.2	6,[9.3]	8
16,17,[18]	11			2	

XXLDVG GlobalFiler™

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

Y6UJWC Investigator® 24plex QS

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	N/A
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	N/A	N/A	15,16,17,31.2	6,9.3	8
16,17,18	11	N/A	N/A	N/A	

Y82X4H PowerPlex® Fusion 5C

16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8,8
16,17,18	11				

TABLE 1

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

Item 3e - STR Results

Y874VE — 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
3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		

YAUL9T — GlobalFiler™

3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

YE7NVN — GlobalFiler™ (STRmix)

3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			2	

YGQPQB — PowerPlex® Fusion

3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				

YP2QBB — PowerPlex® Fusion

3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16		6,9.3	8
	16,17,18	11				

YUXLWJ — PowerPlex® Fusion 6C (STRmix)

3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	16,17,18	11	17	18,20		

Z4XHAK — GlobalFiler™ (STRmix)

3e	16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24			15,16,17,31.2	6,9.3	8
	16,17,18	11			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 3e - STR Results

Z8GHNF Identifiler®

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,17,20,25		15,16,18	9,10,11,12	
7,9,11	12,13			9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2		X,Y	10,12
19,20,22,24				6,9.3	8,8
16,17,18					

(Item: 3e)

ZCRJV6 GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

(Item: 3e)

ZEZWGD PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
16,17,18	11	17	18,20		

(Item: 3e)

ZMVVTK PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
16,17,18	11	17	18,20		

(Item: 3e)

ZN99VV PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16		6,9.3	8
16,17,18	11				

(Item: 3e)

ZR8KTG GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24			15,16,17,31.2	6,9.3	8
16,17,18	11			2	

(Item: 3e)

ZZJZ2G PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
13,14,15,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
16,17,18	11	17	18,20		

(Item: 3e)

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 3sp - STR Results

2CARJY — GlobalFiler™ (STRmix)

Item	D1S1656/D7S820/D18S51/FGA/vWA	D2S1338/D8S1179/D19S433/Penta D/DYS391	D2S441/D10S1248/D21S11/Penta E/DYS570	D3S1358/D12S391/D22S1045/SE33/DYS576	D5S818/D13S317/Amelogenin/TH01/Y Indel	D6S1043/D16S539/CSF1PO/TPOX
3sp	17.3,17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22			15,16	6,9.3	8,8
	17,17	11			2	

2CBPUV — PowerPlex® Fusion

Item						
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				

2EUQPG — GlobalFiler™ (Genemapper ID-X v. 1.5)

Item						
3sp	17.3,17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22			15,16	6,9.3	8,8
	17,17	11			2	

2LWYVA — Investigator® 24plex QS

Item						
3sp	17.3,17.3	17,20	10,14	15,18	10,11	N/A
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	N/A	N/A	15,16	6,9.3	8,8
	17,17	11	N/A	N/A	N/A	

2MRFCD — GlobalFiler™

Item						
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

2PDDNA — PowerPlex® Fusion 6C

Item						
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16	15,16	6,9.3	8
	17	11	17	18		

34VAJD — PowerPlex® Fusion 5C

Item						
3sp	17.3,17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	9,13	12,16		6,9.3	8,8
	17,17	11				

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 3sp - STR Results

3M82G9 — PowerPlex® Fusion 5C (Item 3sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16		6,9.3	8
17	11				

3PCPYJ — GlobalFiler™ (STRmix) (Item 3sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11			2	

42GHPM — GlobalFiler™ (Item 3sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3,17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13,13	19,20	9,9	9,9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
20,22			15,16	6,9.3	8,8
17,17	11			2	

466PDP — GlobalFiler™ (STRmix) (Item 3sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3,17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13,13	19,20	9,9	9,9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
20,22			15,16	6,9.3	8,8
17,17	11			2	

46YP69 — GlobalFiler™ (Item 3sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3,17.3	[16],17,[20]	[10],[11],14	15,[18]	10,11	
7,11	[12],13	13,13	19,20	9	9,9
13,16	[13],13.2	[31.2],32.2	[11],15	X,Y	12,12
[19],20,22			15,[16]	[6],9.3	8,8
17,17	11			2	

4E4E3D — Identifiler® Plus (Item 3sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,20		15,18	10,11	
7,11	12,13			9,9	9,9
13,16	13,13.2	31.2,32.2		X,Y	12,12
20,22				6,9.3	8,8
17,17					

4F2ZKB — GlobalFiler™ (Item 3sp)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3,17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13,13	19,20	9,9	9,9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
20,22			15,16	6,9.3	8,8
17,17	11			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 3sp - STR Results

4FH446 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

4GGZ2F — PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16	15,16	6,9.3	8
	17	11	17	18		

4RUGAC — PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16	15,16	6,9.3	8
	17	11	17	18		

4WNDWH — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

6ATW8H — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

6E4X4L — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17					

6HNYAU — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

TABLE 1

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

Item 3sp - STR Results

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
6R969J	GlobalFiler™ (STRmix)					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	
6UZ7AZ	PowerPlex® Fusion 5C					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				
6W6UPQ	PowerPlex® Fusion 5C					
	17.3,17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	9,13	12,16		6,9.3	8,8
	17,17	11				
6WJ84M	PowerPlex® Fusion 5C					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				
72E89A	GlobalFiler™					
	17.3,17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22			15,16	6,9.3	8,8
	17,17	11			2	
774WK8	PowerPlex® Fusion 5C					
	17.3,17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	9,13	12,16		6,9.3	8,8
	17,17	11				
79EUXN	PowerPlex® Fusion 6C					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16	15,16	6,9.3	8
	17	11	17	18		

TABLE 1

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

Item 3sp - STR Results

7ANQFL	GlobalFiler™ (STRmix)					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	
7CBD39	GlobalFiler™					
	17.3,17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22			15,16	6,9.3	8,8
	17,17	11			2	
7D9QLU	GlobalFiler™ (STRmix)					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	
7G4M29	PowerPlex® Fusion 5C					
	17.3,17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	9,13	12,16		6,9.3	8,8
	17,17	11				
7G769J	GlobalFiler™ (STRmix)					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	
7PJ7L8	GlobalFiler™					
	17.3,17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22			15,16	6,9.3	8,8
	17,17	11			2	
7R4ZFM	GlobalFiler™ (STRmix)					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

TABLE 1

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

Item 3sp - STR Results

7XHLG8 — PowerPlex® Fusion 6C (STRmix) (3sp)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16	15,16	6,9.3	8
17	11	17	18		

7YMBKF — GlobalFiler™ (STRmix) (3sp)

17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11			2	

829LND — GlobalFiler™ (STRmix) (3sp)

17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11			2	

84ZBG8 — GlobalFiler™ (3sp)

17.3,17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13,13	19,20	9,9	9,9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
20,22			15,16	6,9.3	8,8
17,17	11			2	

8NLBHV — GlobalFiler™ (STRmix) (3sp)

17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11			2	

8RG4A6 — PowerPlex® Fusion 5C (3sp)

17.3,17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13,13	19,20	9,9	9,9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
20,22	9,13	12,16		6,9.3	8,8
17,17	11				

8RN4HL — PowerPlex® 21 (STRmix) (3sp)

17.3,17.3	17,20		15,18	10,11	16,18
7,11	12,13		19,20	9,9	9,13
13,16	13,13.2	31.2,32.2		X,Y	12,12
20,22	9,13	12,16		6,9.3	8,8
17,17					

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 3sp - STR Results

8U96D9 — Investigator® 24plex QS

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3,17.3	17,20,[25]	10,[11],14	15,18	10,11,[12]	
7,11	12,13	13,13	19,20	9,9,[12]	9,9,[12],[13]
13,16	13,13.2,[15]	[29],[30],31.2,32.2	11,15	X,Y	[10],12,12
20,22,[24]			15,16	6,9.3	8,8
17,17	11				

8UQ4EC — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11			2	

924F6H — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16		6,9.3	8
17	11				

964QZH — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16		6,9.3	8
17	11				

98R896 — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3,17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13,13	19,20	9,9	9,9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
20,22	9,13	12,16		6,9.3	8,8
17,17	11				

98VMPC — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16	15,16	6,9.3	8
17	11	17	18		

9PTWK3 — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16		6,9.3	8
17	11				

TABLE 1

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

Item 3sp - STR Results

9XQHXV — GlobalFiler™ (STRmix)

17.3	17,20	10,14	15,18	10,11	
7,11	10,12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11			2	

9YGV4K — GlobalFiler™ (STRmix)

16.3,17.3,Q	17,20,Q	10,14,Q	15,17,18,Q	9,10,11,Q	
7,10,11,Q	11,12,13,Q	12,13,Q	18,19,20,Q	8,9,Q	9,Q
12,13,15,16,Q	13,13.2,Q	31.2,32.2,Q	11,14,15,Q	X,Y	11,12,Q
20,22,24,Q			14,15,16,Q	6,9.3,Q	8,Q
16,17,Q	10,11			2	

A3WR3V — PowerPlex® Fusion 5C

17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16		6,9.3	8
17	11				

A48J86 — GlobalFiler™ (TrueAllele)

17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11			2	

A6GTXG — PowerPlex® Fusion 5C

17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16		6,9.3	8
17	11				

A6LYPD — GlobalFiler™ (STRmix)

17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11			2	

A8RGN9 — PowerPlex® Fusion 6C (STRmix)

17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16	15,16	6,9.3	8
17	11	17	18		

TABLE 1

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

Item 3sp - STR Results

AAE2QR   PowerPlex® Fusion 6C (STRmix V2.5.11)

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3sp	17.3,17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	9,13	12,16	15,16	6,9.3	8,8
	17,17	11	17	18		

AB9PC9   PowerPlex® Fusion 6C (STRmix)

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16	15,16	6,9.3	8
	17	11	17	18		

AJ4RDJ   PowerPlex® 5c

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				

AJWR63   GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3sp	17.3	17,20	10,14	15,18	10,11	-
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	-	-	15,16	6,9.3	8
	17	11	-	-	2	

AYVLNP   GlobalFiler™ (STRmix)

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	10,12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

B62FK7   GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3sp	17.3,17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22			15,16	6,9.3	8,8
	17,17	11			2	

B7TKQX   GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

TABLE 1

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

Item 3sp - STR Results

BDB8M9 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

BF2728 — PowerPlex® Fusion 6C (STRMix)

	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16	15,16	6,9.3	8
	17	11	17	18		

BRAZ76 — PowerPlex® Fusion 6C (STRmix)

	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16	15,16	6,9.3	8
	17	11	17	18		

BUFEZP — GlobalFiler™ (STRmix)

	16.3,17.3,Q	16,17,19,20,Q	9,10,13,14,Q	14,15,17,18,Q	9,10,11,Q	
3sp	7,10,11,Q	11,12,13,Q	12,13,Q	18,19,20,Q	8,9,Q	8,9,Q
	12,13,14,15,16,Q	12,12.2,13,13.2,Q	30.2,31.2,32.2,Q	11,14,15,Q	X,Y	11,12,Q
	19,20,21,22,Q			14,14.2,15,15.2,16,Q	6,9.3,Q	8,Q
	16,17,Q	10,11			2	

C4EHG6 — Identifiler®

		17,20		15,18	10,11	
3sp	7,11	12,13			9,9	9,9
	13,16	13,13.2	31.2,32.2		X,Y	12,12
	20,22				6,9.3	8,8
	17,17					

CBJ99B — GlobalFiler™ (STRmix)

	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

CFD6VF — PowerPlex® Fusion

	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	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 3sp - STR Results

CYN7FG 3sp	GlobalFiler™ (STRmix)					
	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	
D3FUDY 3sp	GlobalFiler™					
	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	
D3MVMF 3sp	PowerPlex® Fusion 5C					
	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				
D74233 3sp	Investigator® 24plex QS					
	17.3,17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22			15,16	6,9.3	8,8
	17,17	11				
DKHKHA 3sp	GlobalFiler™ (STRmix)					
	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	
DWWHPY 3sp	PowerPlex® Fusion 6C					
	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16	15,16	6,9.3	8
	17	11	17	18		
DYMJT2 3sp	GlobalFiler™					
	17.3,17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22			15,16	6,9.3	8,8
	17,17	11			2	

TABLE 1

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

Item 3sp - STR Results

EAHCEX	GlobalFiler™					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	
EC46ZZ	NGM SElect					
	17.3,17.3	17,20	10,14	15,18		
3sp		12,13	13,13	19,20		9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	
	20,22			15,16	6,9.3	
	17,17					
EDFX4E	PowerPlex® Fusion					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				
EGFT2W	PowerPlex® Fusion					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				
EHTKVY	PowerPlex® Fusion 5C					
	17.3,17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	9,13	12,16		6,9.3	8,8
	17,17	11				
EXL7HD	PowerPlex® Fusion					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				
EYF7AX	GlobalFiler™					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			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 3sp - 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
F8T8GJ GlobalFiler™ (STRmix)	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	
F9YPFF PowerPlex® Fusion	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				
FE9XUX PowerPlex® Fusion 5C	17.3,17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	9,13	12,16		6,9.3	8,8
	17,17	11				
FMHKMY PowerPlex® Fusion 5C	17.3,17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	9,13	12,16		6,9.3	8,8
	17,17	11				
FND6AX PowerPlex® Fusion 5C	17.3,17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	9,13	12,16		6,9.3	8,8
	17,17	11				
FW7FKT PowerPlex® Fusion	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				
GFEVJZ GlobalFiler™	17.3,17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22			15,16	6,9.3	8,8
	17,17	11			2	

TABLE 1

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

Item 3sp - STR Results

GFFLXV — PowerPlex® Fusion 6C (STRmix 2.6.1)

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
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16	15,16	6,9.3	8
	17	11	17	18		

GH7WM3 — Investigator® 24plex QS

Item						
3sp	17.3,17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22			15,16	6,9.3	8,8
	17,17	11				

H3HBDT — Investigator® 24plex QS

Item						
3sp	17.3,17.3	17,20	10,14	15,18	10,11	N/A
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	N/A	N/A	15,16	6,9.3	8,8
	17,17	11	N/A	N/A	N/A	

H3PBLA — PowerPlex® Fusion

Item						
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				

HAL9AC — PowerPlex® Fusion 6C (STRmix)

Item						
3sp	17.3,17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	9,13	12,16	15,16	6,9.3	8,8
	17,17	11	17	18		

HCANGY — Investigator® 24plex IQS

Item						
3sp	17.3,17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22			15,16	6,9.3	8,8
	17,17	11				

HG4QGR — Investigator® 24plex QS, FlexPlex27

Item						
3sp	17.3,17.3	17,20	10,14	15,18	10,11	16,18
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	N/A	12,16	15,16	6,9.3	8,8
	17,17	11	17	18	N/A	

TABLE 1

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

Item 3sp - STR Results

HJX84M — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11			2	

J77ZLC — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16		6,9.3	8
17	11				

J9U89U — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16	15,16	6,9.3	8
17	11	17	18		

JEG8FU — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3,17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13,13	19,20	9,9	9,9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
20,22			15,16	6,9.3	8,8
17,17	11			2	

JFMTNT — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11			2	

JFUUXA — PowerPlex® Fusion 5c

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16		6,9.3	8
17	11				

JHU32J — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2,33.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11			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 3sp - STR Results

JK32CR — Investigator® 24plex QS

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	[18],19,20	9	9
	13,[15],16	13,13.2	[29],31.2,32.2	11,15	X,Y	12
	20,22	N/A	N/A	15,16	6,9.3	8
	17	11	N/A	N/A	N/A	

JNNYTV — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	17.3,17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22			15,16	6,9.3	8,8
	17,17	11			2	

JYMJ6W — GlobalFiler™ (Genemapper ID-x)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

KGBPN7 — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				

KHFVF3 — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

KLCG86 — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				

KN4HB8 — PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				

TABLE 1

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

Item 3sp - STR Results

KRGFHU GlobalFiler™

3sp						
	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

KWU2PF GlobalFiler™ (STRmix)

3sp						
	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

KWVXZC PowerPlex® Fusion 5C

3sp						
	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				

KYXW9J GlobalFiler™ (STRmix)

3sp						
	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

L4QFRT GlobalFiler™

3sp						
	17.3,17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22			15,16	6,9.3	8,8
	17,17	11			2	

LGXBZW PowerPlex® Fusion 5C

3sp						
	17.3	17,20	10,14	15,[16],18	10,11,[12]	
	7,[9],11	12,13	13	19,20	9	9,[12]
	13,[14],16	13,13.2,[15]	[30],31.2,32.2	11,15	X,Y	12
	20,22	9,[12],13	12,16		6,9.3	8
	17	11				

LPKD26 PowerPlex® 21, Verifiler Plus

3sp						
	17.3	17,20	10,14	15,18	10,11	16,18
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17				2	

TABLE 1

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

Item 3sp - STR Results

M8MLLP — PowerPlex® Fusion 6C — 3sp

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
17.3	17,20,25	10,14	15,16,18	10,11	
7,11	12,13	13,14	19,20	9	9
13,16	13,13.2	30,31.2,32.2	11,15	X,Y	10,12
20,22	9,13	7,12,16	15,16,31.2	6,9.3	8
17	11	17	18		

MB23VU — GlobalFiler™ — 3sp

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
17.3,17.3	[17],20	10,14	15,18	10,11	
7,11	12,13	13,13	19,20	9,9	9,9
13,[14],16	13,13.2	[29],31.2,32.2	11,15	X,Y	12,12
20,22			15,16	6,9.3	8,8
17,17	11			2	

MCXNHT — Identifiler® Plus — 3sp

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
	17,20		15,18	10,11	
7,11	12,13			9,9	9,9
13,16	13,13.2	31.2,32.2		X,Y	12,12
20,22				6,9.3	8,8
17,17					

MLPRZU — PowerPlex® Fusion 6C (STRmix) — 3sp

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16	15,16	6,9.3	8
17	11	17	18		

MNTMHC — GlobalFiler™ (STRmix) — 3sp

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11			2	

MNUKT8 — PowerPlex® Fusion 6C — 3sp

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
17.3	17,20	10,11,14	15,16,18	10,11	
7,11	12,13	13	19,20	9,11	9,12,13
13,14,16	13,13.2	30,31.2,32.2	11,15	X,Y	10,12
20,22	9,12,13	12,16	15,16	6,9.3	8
17	11	17	18		

MP3VMQ — PowerPlex® Fusion 6C (STRmix) — 3sp

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16	15,16	6,9.3	8
17	11	17	18		

TABLE 1

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

Item 3sp - STR Results

MQHREP GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

MRTWN8 PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16	15,16	6,9.3	8
	17	11	17	18		

MUH3BP GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

MXXKJU Investigator® 24plex IQS

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17.3,17.3	17,20,[25]	10,14	15,18	10,11	
3sp	7,11	12,13	13,13	19,20	9,9,[12]	9,9,[12],[13]
	13,16	13,13.2,[15]	31.2,32.2	11,15	X,Y	12,12
	20,22			15,16,[31.2]	6,9.3	8,8
	17,17	11				

N6WJEF GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

NB2FZ2 GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

NFBNEK GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

TABLE 1

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

Item 3sp - STR Results

		D1/D7/D18/FGA/vWA	D2S1338/D8S1179/D19S433/PentaD/DYS391	D2S441/D10S1248/D21S11/PentaE/DYS570	D3S1358/D12S391/D22S1045/SE33/DYS576	D5S818/D13S317/Amelogenin/TH01/YIndel	D6S1043/D16S539/CSF1PO/TPOX
NT34QZ	GlobalFiler™ (STRmix)						
3sp		17.3	17,20	10,14	15,18	10,11	
		7,11	12,13	13	19,20	9	9
		13,16	13,13.2	31.2,32.2	11,15	X,Y	12
		20,22			15,16	6,9.3	8
		17	11			2	
NTXXY6	GlobalFiler™ (STRmix)						
3sp		17.3	17,20	10,14	15,18	10,11	
		7,11	12,13	13	19,20	9	9
		13,16	13,13.2	31.2,32.2	11,15	X,Y	12
		20,22			15,16	6,9.3	8
		17	11			2	
P2QEEZ	GlobalFiler™ (STRmix)						
3sp		17.3	17,20	10,14	15,18	10,11	
		7,11	12,13	13	19,20	9	9
		13,16	13,13.2	31.2,32.2	11,15	X,Y	12
		20,22			15,16	6,9.3	8
		17	11			2	
PNJEHM	GlobalFiler™						
3sp		17.3	17,20	10,14	15,18	10,11	
		7,11	12,13	13	19,20	9	9
		13,16	13,13.2	31.2,32.2	11,15	X,Y	12
		20,22			15,16	6,9.3	8
		17	11			2	
PNY2RP	GlobalFiler™						
3sp		17.3	17,20	10,14	15,18	10,11	
		7,11	12,13	13	19,20	9	9
		13,16	13,13.2	31.2,32.2	11,15	X,Y	12
		20,22			15,16	6,9.3	8
		17	11			2	
PQ9UWP	GlobalFiler™						
3sp		17.3,17.3	17,20	10,14	15,18	10,11	
		7,11	12,13	13,13	19,20	9,9	9,9
		13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
		20,22			15,16	6,9.3	8,8
		17,17	11			2	
PQBQ3E	GlobalFiler™ (STRmix)						
3sp		17.3	17,20	10,14	15,18	10,11	
		7,11	12,13	13	19,20	9	9
		13,16	13,13.2	31.2,32.2	11,15	X,Y	12
		20,22			15,16	6,9.3	8
		17	11			2	

TABLE 1

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

Item 3sp - STR Results

PRJNRP Investigator® 24plex QS

17.3,17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13,13	19,20	9,9	9,9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
20,22			15,16	6,9.3	8,8
17,17	11				

PTZVZR PowerPlex® Fusion 6C (STRmix)

17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16	15,16	6,9.3	8
17	11	17	18		

PV3UD7 PowerPlex® 21 (STRmix)

17.3,17.3	17,20		15,18	10,11	16,18
7,11	12,13		19,20	9,9	9,9
13,16	13,13.2	31.2,32.2		X,Y	12,12
20,22	9,13	12,16		6,9.3	8,8
17,17					

PVLF4B GlobalFiler™ (STRmix)

17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,15.2,16	6,9.3	8
17	11			2	

PZZFZ3 PowerPlex® Fusion

17.3	17,20,25	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	10,12
20,22	9,13	12,16		6,9.3	8
17	11				

Q8A2LB GlobalFiler™ (STRmix)

17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,14,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			14.2,15,16	6,9.3	8
17	11			2	

QDZDNY PowerPlex® Fusion

17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16		6,9.3	8
17	11				

TABLE 1

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

Item 3sp - STR Results

QQPAMC — GlobalFiler™ (STRmix)

3sp	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

QRH7C7 — PowerPlex® Fusion

3sp						
	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				

QVGQQP — Identifiler® Plus

3sp						
		17,20		15,18	10,11	
	7,11	12,13			9,9	9,9
	13,16	13,13.2	31.2,32.2		X,Y	12,12
	20,22				6,9.3	8,8
	17,17					

QZTEQL — Investigator® 24plex QS

3sp						
	17.3,17.3	17,20	10,14	15,18	10,11	N/A
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	N/A	N/A	15,16	6,9.3	8,8
	17,17	11	N/A	N/A	N/A	

R3WFFP — PowerPlex® Fusion 6C (STRmix)

3sp						
	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16	15,16	6,9.3	8
	17	11	17	18		

R7U7DN — Investigator® 24plex

3sp						
	17.3,17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22			15,16	6,9.3	8,8
	17,17	11				

R7XNJZ — PowerPlex® Fusion

3sp						
	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				

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 3sp - STR Results

R89Q7Y	GlobalFiler™					
	17.3,17.3	17,20	10,14	15,18	10,11	--
3sp	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	--	--	15,16	6,9.3	8,8
	17,17	11	--	--	2	
R9GPEL	PowerPlex® Fusion 5C					
	17.3,17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13,13	19,20	9,[11]	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	9,13	12,16		6,9.3	8,8
	17,17	11				
R9NPM3	PowerPlex® Fusion 5C					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				
RAYRA2	PowerPlex® Fusion					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				
RCNYUX	PowerPlex® Fusion 5C					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				
RGWGRQ	PowerPlex® Fusion 6C (STRmix)					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16	15,16	6,9.3	8
	17	11	17	18		
RLA3YC	GlobalFiler™ (STRmix)					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			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 3sp - STR Results

RTPZ8W	GlobalFiler™					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	29,31.2,32.2	11,15	X,Y	12
	20,22	--	--	15,16	6,9.3	8
	17	11	--	--	2	

RZVH3C	GlobalFiler™ (STRmix)					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16,17	6,9.3	8
	17	11			2	

T79RMQ	PowerPlex® Fusion					
	17.3	17,20	10,14	15,[16],18	10,11	
3sp	7,11	12,13	13	19,20	9,[12]	9
	13,[14],16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,[12],13	[7],12,16		6,9.3	8
	17	11				

T8NANB	GlobalFiler™ (STRmix)					
	17.3	17,20	10,14	15,17,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

TBHD7G	PowerPlex® Fusion					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				

TEHGZP	GlobalFiler™					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

THKFG9	GlobalFiler™ (STRmix)					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,13
	20,22			15,16	6,9.3	8
	17	11			2	

TABLE 1

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

Item 3sp - STR Results

TK6BXM PowerPlex® Fusion 6C (STRmix v2.9)

3sp	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16	15,16	6,9.3	8
	17	11	17	18		

TPKJLL PowerPlex® Fusion 5C

3sp	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17.3,17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	9,13	12,16		6,9.3	8,8
	17,17	11				

TTJZXF PowerPlex® Fusion

3sp	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				

TWHCUF PowerPlex® Fusion 5C

3sp	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				

TWPC3W GlobalFiler™

3sp	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17.3,17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22			15,16	6,9.3	8,8
	17,17	11			2	

U36KEX GlobalFiler™ (STRmix)

3sp	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

U3AQ7U GlobalFiler™ (STRmix)

3sp	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

TABLE 1

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

Item 3sp - STR Results

U6WTPM — 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
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16	15,16	6,9.3	8
17	11	17	18		

U8HCR6 — GlobalFiler™ (STRmix)

17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			14.2,15,16	6,9.3	8
17	11		2		

UAADV9 — GlobalFiler™ (STRmix)

17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16,17	6,9.3	8
17	11		2		

UCUACL — PowerPlex® Fusion

17.3,17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13,13	19,20	9,9	9,9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
20,22	9,13	12,16		6,9.3	8,8
17,17	11				

UJAYZL — GlobalFiler™

17.3,17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13,13	19,20	9,9	9,9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
20,22			15,16	6,9.3	8,8
17,17	11		2		

VA3JRT — GlobalFiler™ (STRmix)

17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11		2		

VAJUAX — GlobalFiler™ (STRmix)

17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11		2		

TABLE 1

| Item | D1S1656 | D2S1338 | D2S441 | D3S1358 | D5S818 | D6S1043 |
WebCode	D7S820	D8S1179	D10S1248	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

VF8MF7 — GlobalFiler™ (STRmix) — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11			2	

VKNPQH — PowerPlex® Fusion 6C (STRmix) — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16	15,16	6,9.3	8
17	11	17	18		

VMQR7K — GlobalFiler™ — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11			2	

VV6JVJ — GlobalFiler™ — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11			2	

VV84RY — PowerPlex® Fusion 5C — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16		6,9.3	8
17	11				

VVZ4JH — GlobalFiler™ CASEWORK — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3,17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13,13	19,20	9,9	9,9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
20,22			15,16	6,9.3	8,8
17,17	11			2	

VY3TBR — GlobalFiler™ (STRmix) — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11			2	

TABLE 1

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

Item 3sp - STR Results

W3TV4G — PowerPlex® Fusion — 3sp

17.3,17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13,13	19,20	9,9	9,9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
20,22	9,13	12,16		6,9.3	8,8
17,17	11				

W6KUHF — GlobalFiler™ — 3sp

17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11			2	

W6RURW — PowerPlex® Fusion — 3sp

17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22	9,13	12,16		6,9.3	8
17	11				

W7T8ZG — PowerPlex® Fusion — 3sp

17.3,17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13,13	19,20	9,9	9,9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
20,22	9,13	12,16		6,9.3	8,8
17,17	11				

WFL9P8 — GlobalFiler™ (STRmix) — 3sp

17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13	19,20	9	9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12
20,22			15,16	6,9.3	8
17	11			2	

WTCXQY — GlobalFiler™ — 3sp

17.3,17.3	17,20	10,14	15,18	10,11	
7,11	12,13	13,13	19,20	9,9	9,9
13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
20,22			15,16	6,9.3	8,8
17,17	11,11			2,2	

WUNM4J — Investigator® 24plex IQS — 3sp

17.3,17.3	17,20	10,[11],14	15,18	10,11	
7,11	12,13	13,13	19,20	9,9	9,9
13,16	13,13.2,[15]	[29],31.2,32.2	11,15	X,Y	12,12
20,22			15,16	6,9.3	8,8
17,17	11				

TABLE 1

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

Item 3sp - STR Results

WVFVXK	PowerPlex® Fusion 6C (STRmix)					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16	15,16	6,9.3	8
	17	11	17	18		

XCKMCV	PowerPlex® Fusion					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				

XRWX6N	GlobalFiler™ (STRmix)					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

XUPUUH	GlobalFiler™					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

XXLDVG	GlobalFiler™					
	17.3,17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22			15,16	6,9.3	8,8
	17,17	11			2	

Y6UJWC	Investigator® 24plex QS					
	17.3,17.3	17,20	10,14	15,18	10,11	N/A
3sp	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	N/A	N/A	15,16	6,9.3	8,8
	17,17	11	N/A	N/A	N/A	

Y82X4H	PowerPlex® Fusion 5C					
	17.3,17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22	9,13	12,16		6,9.3	8,8
	17,17	11				

TABLE 1

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

Item 3sp - STR Results

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
Y874VE	PowerPlex® Fusion 6C					
	17.3,18.3	16,17,20,25	10,11,14	15,16,18	9,10,11,12	
3sp	7,9,11	12,13	13,14	18,19,20	9,11,12	9,12,13
	13,14,16	13,13.2,14,15	29,30,31.2,32.2	11,15	X,Y	10,12
	19,20,22,24	9,12,13	7,12,16	15,16,17,31.2	6,9.3	8
	17,18	11	17	18,20		
YAUL9T	GlobalFiler™					
	17.3,17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22			15,16	6,9.3	8,8
	17,17	11			2	
YE7NVN	GlobalFiler™ (STRmix)					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	
YGQPQB	PowerPlex® Fusion					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				
YP2QBB	PowerPlex® Fusion					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				
YUXLWJ	PowerPlex® Fusion 6C (STRmix)					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16	15,16	6,9.3	8
	17	11	17	18		
Z4XHAK	GlobalFiler™ (STRmix)					
	17.3	17,20	10,14	15,18	10,11	
3sp	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

TABLE 1

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

Item 3sp - STR Results

Z8GHNF — Identifiler®

3sp		17,20		15,18	10,11	
	7,11	12,13			9,9	9,9
	13,16	13,13.2	31.2,32.2		X,Y	12,12
	20,22				6,9.3	8,8
	17,17					

ZCRJV6 — GlobalFiler™ (STRmix)

3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22			15,16	6,9.3	8
	17	11			2	

ZEZWGD — PowerPlex® Fusion 6C

3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16	15,16	6,9.3	8
	17	11	17	18		

ZMVVTK — PowerPlex® Fusion 6C (STRmix)

3sp	17.3	17,20	10,14	15,16,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16	15,16	6,9.3	8
	17	11	17	18		

ZN99VV — PowerPlex® Fusion

3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16		6,9.3	8
	17	11				

ZR8KTG — GlobalFiler™

3sp	17.3,17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13,13	19,20	9,9	9,9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12,12
	20,22			15,16	6,9.3	8,8
	17,17	11			2	

ZZJZ2G — PowerPlex® Fusion 6C (STRmix)

3sp	17.3	17,20	10,14	15,18	10,11	
	7,11	12,13	13	19,20	9	9
	13,16	13,13.2	31.2,32.2	11,15	X,Y	12
	20,22	9,13	12,16	15,16	6,9.3	8
	17	11	17	18		

TABLE 1

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

Item 4 - STR Results

2CARJY	GlobalFiler™ (STRmix)					
	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

2CBPUV	PowerPlex® Fusion					
	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

2EUQPG	GlobalFiler™ (Genemapper ID-X v. 1.5)					
	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

2LWYVA	Investigator® 24plex QS					
	16.3,18.3	16,25	10,11	15,16	9,12	N/A
4	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	N/A	N/A	17,31.2	6,6	8,8
	16,18	11	N/A	N/A	N/A	

2MRFCD	GlobalFiler™					
	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

2PDDNA	PowerPlex® Fusion 6C					
	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		

34VAJD	PowerPlex® Fusion 5C					
	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12		6,6	8,8
	16,18	11				

TABLE 1

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

Item 4 - STR Results

3M82G9 — PowerPlex® Fusion 5C — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

3PCPYJ — GlobalFiler™ — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

42GHPM — GlobalFiler™ — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

466PDP — GlobalFiler™ (STRmix) — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

46YP69 — GlobalFiler™ — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

4E4E3D — Identifiler® Plus — Item 4

	16,25		15,16	9,12	
9,11	13,13			11,12	12,13
14,15	14,15	29,30		X,Y	10,10
19,24				6,6	8,8
16,18					

4ERV62 — GlobalFiler™, ArgusX and MiniFiler — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

TABLE 1

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

Item 4 - STR Results

4F2ZKB GlobalFiler™ — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

4FH446 GlobalFiler™ — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

4GGZ2F PowerPlex® Fusion 6C — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

4RUGAC PowerPlex® Fusion 6C — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

4WNDWH GlobalFiler™ (STRmix) — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

6ATW8H GlobalFiler™ (STRmix) — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

6E4X4L GlobalFiler™ — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18					

TABLE 1

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

Item 4 - STR Results

6HNYAU GlobalFiler™ (STRmix)   — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15,16	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

6R969J GlobalFiler™ (STRmix)   — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

6UZ7AZ PowerPlex® Fusion 5C   — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

6W3CHE PowerPlex® Fusion 6C   — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12	17,31.2	6,6	8,8
16,18	11	17	20		

6W6UPQ PowerPlex® Fusion 5C   — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

6WJ84M PowerPlex® Fusion 5C   — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

72E89A GlobalFiler™   — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

TABLE 1

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

Item 4 - STR Results

774WK8 — 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
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

79EUXN — PowerPlex® Fusion 6C

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

7ANQFL — GlobalFiler™ (STRmix)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

7CBD39 — GlobalFiler™

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

7D9QLU — GlobalFiler™ (STRmix)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

7G4M29 — PowerPlex® Fusion 5C

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

7G769J — GlobalFiler™ (STRmix)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

TABLE 1

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

Item 4 - STR Results

7GQVBC — PowerPlex® Fusion 6C

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12	17,31.2	6,6	8,8
16,18	11	17	20		

(Item 4)

7PJ7L8 — GlobalFiler™

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

(Item 4)

7R4ZFM — GlobalFiler™

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

(Item 4)

7XHLG8 — PowerPlex® Fusion 6C

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

(Item 4)

7YMBKF — GlobalFiler™ (STRmix)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

(Item 4)

829LND — GlobalFiler™

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

(Item 4)

84ZBG8 — GlobalFiler™

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

(Item 4)

TABLE 1

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

Item 4 - STR Results

8NLBHV — GlobalFiler™ (STRmix) — Item 4

D1/…	D2	D3	D4	D5	D6
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			16.2,17,31.2	6	8
16,18	11			2	

8RG4A6 — PowerPlex® Fusion 5C — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

8RN4HL — PowerPlex® 21 (STRmix) — Item 4

16.3,18.3	16,25		15,16	9,12	12,18
9,11	13,13		18,18	11,12	12,13
14,15	14,15	29,30		X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18					

8U96D9 — Investigator® 24plex QS — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11				

8UQ4EC — GlobalFiler™ — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

8XYLDZ — PowerPlex® Fusion 6c — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

924F6H — PowerPlex® Fusion — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

TABLE 1

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

Item 4 - STR Results

964QZH — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

98R896 — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

98VMPC — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

9XQHXV — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	10,12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

9YGV4K — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15.3,16.3,17.3,18.3,Q	15,16,23,24,25,Q	9,10,11,Q	14,15,16,Q	8,9,11,12,Q	
8,9,10,11,Q	12,13,Q	12,13,14,Q	17,18,Q	10,11,12,Q	11,12,13,Q
13,14,15,Q	13,14,15,Q	28,29,30,Q	14,15,16,Q	X,Y	9,10,Q
18,19,23,24,Q			16,16.2,17,30.2,31.31.2,Q	5,6,Q	7,8,Q
15,16,17,18,Q	10,11			2	

A3WR3V — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

A48J86 — GlobalFiler™ (TrueAllele)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

TABLE 1

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

Item 4 - STR Results

A6GTXG PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

A6LYPD GlobalFiler™ (STRmix)

4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

A8RGN9 PowerPlex® Fusion 6C

4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		

AAE2QR PowerPlex® Fusion 6C (STRmix V2.5.11)

4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12	17,31.2	6,6	8,8
	16,18	11	17	20		

AB9PC9 PowerPlex® Fusion 6C

4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		

AE23CX GlobalFiler™

4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

AJ4RDJ PowerPlex® 5c

4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

TABLE 1

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

Item 4 - STR Results

AJWR63 — GlobalFiler™

16.3,18.3	16,25	10,11	15,16	9,12	-
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	-	-	17,31.2	6	8
16,18	11	-	-	2	

Item: 4

AUY8U8 — PowerPlex® Fusion 6C

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12	17,31.2	6,6	8,8
16,18	11	17	20		

Item: 4

AYVLNP — GlobalFiler™ (STRmix)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,30.2,31.2	6	8
16,18	11			2	

Item: 4

B62FK7 — GlobalFiler™

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

Item: 4

B7TKQX — GlobalFiler™

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

Item: 4

BDB8M9 — GlobalFiler™

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

Item: 4

BF2728 — PowerPlex® Fusion 6C

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

Item: 4

TABLE 1

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

BRAZ76 — 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
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		

BUFEZP — GlobalFiler™ (STRmix)

4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

C4EHG6 — Identifiler®

4		16,25		15,16	9,12	
	9,11	13,13			11,12	12,13
	14,15	14,15	29,30		X,Y	10,10
	19,24				6,6	8,8
	16,18					

CBJ99B — GlobalFiler™ (STRmix)

4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

CFD6VF — PowerPlex® Fusion

4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

CYN7FG — GlobalFiler™

4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

D2KFGU — GlobalFiler™

4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

TABLE 1

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

Item 4 - STR Results

D3FUDY — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

D3MVMF — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

D74233 — Investigator® 24plex QS

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11				

DG33E8 — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12	17,31.2	6,6	8,8
16,18	11	17	20		

DKHKHA — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

DWWHPY — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

DYMJT2 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

TABLE 1

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

Item 4 - STR Results

EAHCEX GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

EDFX4E PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

EGFT2W PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

EGZL6E NGM SElect

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	16.3,18.3	16,25	10,11	15,16		
		13	13,14	18		12,13
	14,15	14,15	29,30	15	X,Y	
	19,24			17,31.2	6	
	16,18					

EHTKVY PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12		6,6	8,8
	16,18	11				

ERY83D PowerPlex® 21

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	16.3,18.3	16,25		15,16	9,12	12,18
	9,11	13		18	11,12	12,13
	14,15	14,15	29,30		X,Y	10
	19,24	12	7,12		6	8
	16,18					

EXL7HD PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

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 4 - STR Results

EYF7AX — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

(Item 4)

F8T8GJ — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

(Item 4)

F9YPFF — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

(Item 4)

FE9XUX — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

(Item 4)

FMHKMY — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

(Item 4)

FND6AX — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

(Item 4)

FW7FKT — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

(Item 4)

TABLE 1

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

Item 4 - STR Results

GFEVJZ — GlobalFiler™ (Item 4)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

GFFLXV — PowerPlex® Fusion 6C (Item 4)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

GH7WM3 — Investigator® 24plex QS (Item 4)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11				

H3HBDT — Investigator® 24plex QS (Item 4)

16.3,18.3	16,25	10,11	15,16	9,12	N/A
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	N/A	N/A	17,31.2	6,6	8,8
16,18	11	N/A	N/A	N/A	

H3PBLA — PowerPlex® Fusion (Item 4)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

HAL9AC — PowerPlex® Fusion 6C (Item 4)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12	17,31.2	6,6	8,8
16,18	11	17	20		

HCANGY — Investigator® 24plex IQS (Item 4)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11				

TABLE 1

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

Item 4 - STR Results

HG4QGR — Investigator® 24plex QS (Item 4)

D1S1656/D7S820/D18S51/FGA/vWA	D2S1338/D8S1179/D19S433/Penta D/DYS391	D2S441/D10S1248/D21S11/Penta E/DYS570	D3S1358/D12S391/D22S1045/SE33/DYS576	D5S818/D13S317/Amelogenin/TH01/Y Indel	D6S1043/D16S539/CSF1PO/TPOX
16.3,18.3	16,25	10,11	15,16	9,12	N/A
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	N/A	N/A	17,31.2	6,6	8,8
16,18	11	N/A	N/A	N/A	

HJX84M — GlobalFiler™ (STRmix) (Item 4)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

J77ZLC — PowerPlex® Fusion 5C (Item 4)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

J9P2FY — PowerPlex® Fusion, ESX17, VERIFILER Plus (Item 4)

16.3,18.3	16,25	10,11	15,16	9,12	12,18
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12	17,31.2	6,6	8,8
16,18	11			2	

J9U89U — PowerPlex® Fusion 6C (Item 4)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

JEG8FU — GlobalFiler™ (Item 4)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

JFMTNT — GlobalFiler™ (Item 4)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

TABLE 1

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

Item 4 - STR Results

JFUUXA — PowerPlex® Fusion 5c

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

Item: 4

JHU32J — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

Item: 4

JK32CR — Investigator® 24plex QS

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	N/A
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	N/A	N/A	17,31.2	6,6	8,8
16,18	11	N/A	N/A	N/A	

Item: 4

JNNYTV — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

Item: 4

JYMJ6W — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

Item: 4

KGBPN7 — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

Item: 4

KHFVF3 — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

Item: 4

TABLE 1

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

KLCG86 — PowerPlex® Fusion

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

KN4HB8 — PowerPlex® Fusion 5C

Item						
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

KRGFHU — GlobalFiler™

Item						
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

KWU2PF — GlobalFiler™ (STRmix)

Item						
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

KWVXZC — PowerPlex® Fusion 5C

Item						
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

KYXW9J — GlobalFiler™ (STRmix)

Item						
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15,16	X,Y	10
	19,24			17,30.2,31.2	6	8
	16,18	11			2	

L4QFRT — GlobalFiler™

Item						
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

TABLE 1

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

Item 4 - STR Results

LGXBZW — PowerPlex® Fusion 5C — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

LPKD26 — PowerPlex® 21, Verifiler Plus — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	12,18
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18				2	

M8MLLP — PowerPlex® Fusion 6C — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

MB23VU — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

MCXNHT — Identifiler® Plus — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,25		15,16	9,12	
9,11	13,13			11,12	12,13
14,15	14,15	29,30		X,Y	10,10
19,24				6,6	8,8
16,18					

MLPRZU — PowerPlex® Fusion 6C — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

MNTMHC — GlobalFiler™ (STRmix) — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

TABLE 1

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

Item 4 - STR Results

MNUKT8 — PowerPlex® Fusion 6C

Item						
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		

MP3VMQ — PowerPlex® Fusion 6C

Item						
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		

MQHREP — GlobalFiler™

Item						
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

MRTWN8 — PowerPlex® Fusion 6C

Item						
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		

MUH3BP — GlobalFiler™

Item						
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

MXXKJU — Investigator® 24plex IQS

Item						
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11				

N6WJEF — GlobalFiler™

Item						
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

TABLE 1

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

Item 4 - STR Results

NB2FZ2	GlobalFiler™ (STRmix)					
	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

NFBNEK	GlobalFiler™					
	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

NT34QZ	GlobalFiler™ (STRmix)					
	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

NTXXY6	GlobalFiler™					
	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

P2QEEZ	GlobalFiler™ (STRmix)					
	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

PNJEHM	GlobalFiler™					
	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

PNY2RP	GlobalFiler™					
	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

TABLE 1

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

Item 4 - STR Results

PQ9UWP — GlobalFiler™ — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

PQBQ3E — GlobalFiler™ (STRmix) — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

PQHVHH — GlobalFiler™ — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

PRJNRP — Investigator® 24plex QS — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11				

PTZVZR — PowerPlex® Fusion 6C — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

PV3UD7 — PowerPlex® 21 (STRmix) — Item 4

16.3,18.3	16,25		15,16	9,12	12,18
9,11	13,13		18,18	11,12	12,13
14,15	14,15	29,30		X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18					

PVLF4B — GlobalFiler™ (STRmix) — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

TABLE 1

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

Item 4 - STR Results

PZZFZ3 — PowerPlex® Fusion — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

Q8A2LB — GlobalFiler™ (STRmix) — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

QDZDNY — PowerPlex® Fusion — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

QQPAMC — GlobalFiler™ (STRmix) — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

QRH7C7 — PowerPlex® Fusion — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

QVGQQP — Identifiler® Plus — Item 4

	16,25		15,16	9,12	
9,11	13,13			11,12	12,13
14,15	14,15	29,30		X,Y	10,10
19,24				6,6	8,8
16,18					

QZTEQL — Investigator® 24plex QS — Item 4

16.3,18.3	16,25	10,11	15,16	9,12	N/A
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	N/A	N/A	17,31.2	6,6	8,8
16,18	11	N/A	N/A	N/A	

TABLE 1

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

Item 4 - STR Results

R3WFFP — PowerPlex® Fusion 6C (Item 4)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

R4UTXC — GlobalFiler™, MiniFiler and ArgusX (Item 4)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

R7U7DN — Investigator® 24plex (Item 4)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11				

R7XNJZ — PowerPlex® Fusion (Item 4)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

R89Q7Y — GlobalFiler™ (Item 4)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	--
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	--	--	17,31.2	6,6	8,8
16,18	11	--	--	2	

R9GPEL — PowerPlex® Fusion 5C (Item 4)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

R9NPM3 — PowerPlex® Fusion 5C (Item 4)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

TABLE 1

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

Item 4 - STR Results

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
RAYRA2	PowerPlex® Fusion					
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				
RCNYUX	PowerPlex® Fusion 5C					
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				
RGWGRQ	PowerPlex® Fusion 6C					
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		
RLA3YC	GlobalFiler™ (STRmix)					
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	
RTPZ8W	GlobalFiler™					
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	--	--	17,31.2	6,6	8,8
	16,18	11	--	--	2	
RZVH3C	GlobalFiler™ (STRmix)					
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,17,18	11			2	
T79RMQ	PowerPlex® Fusion					
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

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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 4 - STR Results

T8NANB GlobalFiler™ (STRmix)

	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			16.2,17,31.2	6	8
	16,18	11			2	

TBHD7G PowerPlex® Fusion

	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

TEHGZP GlobalFiler™

	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

THKFG9 GlobalFiler™ (STRmix)

	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

TK6BXM PowerPlex® Fusion 6C (STRmix v2.9)

	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		

TPKJLL PowerPlex® Fusion 5C

	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24	12,12	7,12		6,6	8,8
	16,18	11				

TTJZXF PowerPlex® Fusion

	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

TABLE 1

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

Item 4 - STR Results

TWHCUF   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
4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

TWPC3W   GlobalFiler™

4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

U36KEX   GlobalFiler™

4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

U3AQ7U   GlobalFiler™ (STRmix)

4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

U6WTPM   PowerPlex® Fusion 6C

4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		

U8HCR6   GlobalFiler™ (STRmix)

4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

UAADV9   GlobalFiler™ (STRmix)

4	16.3,18.3	16,25	10,11	15,16	9,12	
	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24			17,31.2	6	8
	16,18	11			2	

TABLE 1

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

Item 4 - STR Results

UCUACL — PowerPlex® Fusion (Item 4)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

UJAYZL — GlobalFiler™ (Item 4)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

VA3JRT — GlobalFiler™ (STRmix) (Item 4)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

VAJUAX — GlobalFiler™ (STRmix) (Item 4)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

VF8MF7 — GlobalFiler™ (STRmix) (Item 4)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11,12	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

VKNPQH — PowerPlex® Fusion 6C (Item 4)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

VMQR7K — GlobalFiler™ (Item 4)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

TABLE 1

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

Item 4 - STR Results

VV6JVJ — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

VV84RY — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

VVZ4JH — GlobalFiler™ CASEWORK

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

VY3TBR — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

W3TV4G — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

W6KUHF — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

W6RURW — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

TABLE 1

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

Item 4 - STR Results

W7T8ZG — PowerPlex® Fusion — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11				

WEV8L6 — GlobalFiler™ — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

WFL9P8 — GlobalFiler™ (STRmix) — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

WTCXQY — GlobalFiler™ — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11,11			2,2	

WUNM4J — Investigator® 24plex IQS — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11				

WVFVXK — PowerPlex® Fusion 6C — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

XCKMCV — PowerPlex® Fusion — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

TABLE 1

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

Item 4 - STR Results

XRWX6N — GlobalFiler™ (STRmix) — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

XUPUUH — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

XXLDVG — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

Y6UJWC — Investigator® 24plex QS — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	N/A
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	N/A	N/A	17,31.2	6,6	8,8
16,18	11	N/A	N/A	N/A	

Y82X4H — PowerPlex® Fusion 5C — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24	12,12	7,12		6,6	8,8
16,18	11,11				

Y874VE — PowerPlex® Fusion 6C — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

YAUL9T — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13,13	13,14	18,18	11,12	12,13
14,15	14,15	29,30	15,15	X,Y	10,10
19,24			17,31.2	6,6	8,8
16,18	11			2	

TABLE 1

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

Item 4 - STR Results

YE7NVN   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
16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

YGQPQB   PowerPlex® Fusion

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

YP2QBB   PowerPlex® Fusion

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12		6	8
16,18	11				

YUXLWJ   PowerPlex® Fusion 6C

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24	12	7,12	17,31.2	6	8
16,18	11	17	20		

Z4XHAK   GlobalFiler™

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

Z8GHNF   Identifiler®

	16,25		15,16	9,12	
9,11	13,13			11,12	12,13
14,15	14,15	29,30		X,Y	10,10
19,24				6,6	8,8
16,18					

ZCRJV6   GlobalFiler™ (STRmix)

16.3,18.3	16,25	10,11	15,16	9,12	
9,11	13	13,14	18	11,12	12,13
14,15	14,15	29,30	15	X,Y	10
19,24			17,31.2	6	8
16,18	11			2	

TABLE 1

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

Item 4 - STR Results

ZEZWGD	PowerPlex® Fusion 6C					
	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		

ZMVVTK	PowerPlex® Fusion 6C					
	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		

ZN99VV	PowerPlex® Fusion					
	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

ZR8KTG	GlobalFiler™					
	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13,13	13,14	18,18	11,12	12,13
	14,15	14,15	29,30	15,15	X,Y	10,10
	19,24			17,31.2	6,6	8,8
	16,18	11			2	

ZZJZ2G	PowerPlex® Fusion 6C					
	16.3,18.3	16,25	10,11	15,16	9,12	
4	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12	17,31.2	6	8
	16,18	11	17	20		

TABLE 1

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

9PTWK3	PowerPlex® Fusion					
	16.3,18.3	16,25	10,11	15,16	9,12	
4e	9,11	13	13,14	18	11,12	12,13
	14,15	14,15	29,30	15	X,Y	10
	19,24	12	7,12		6	8
	16,18	11				

EC46ZZ	NGM SElect					
	16.3,18.3	16,25	10,11	15,16		
4e		13,13	13,14	18,18		12,13
	14,15	14,15	29,30	15,15	X,Y	
	19,24			17,31.2	6,6	
	16,18					

TABLE 1

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

Item 4sp - STR Results

9PTWK3	PowerPlex® Fusion					
	18.3	NR	NR	NR	NR	
4sp	NR	13	NR	NR	NR	12
	NR	NR	NR	NR	NR	NR
	NR	NR	NR		NR	8
	NR	NR				

EC46ZZ	NGM SElect					
4sp						

YSTR Amplification Kit(s) & 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 1 - YSTR Results

2G3ZLK — Yfiler™

1		14	11,14	13	30	24	11	12	13
	15	12	12	19		16	17		
							23		12

2MRFCD — Yfiler™ Plus

1	35,37	14	11,14	13	30	24	11	12	13
	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

34VAJD — PowerPlex® Y 23

1		14	11,14	13	30	24	11	12	13
	15	12	12	19		16	17		23
	11	12	17	20			23	12	12

3JN34D — Yfiler™

1		14	11,14	13	30	24	11	12	13
	15	12	12	19		16	17		
							23		12

3M82G9 — Yfiler™ Plus

1	35,37	14	11,14	13	30	24	11	12	13
	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

4ERV62 — Yfiler™ Plus

1	35,37	14	11,14	13	30	24	11	12	13
	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

4F2ZKB — Yfiler™ Plus Direct Mode

1	35,37	14	11,14	13	30	24	11	12	13
	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

4FH446 — Yfiler™

1		14	11,14	13	30	24	11	12	13
	15	12	12	19		16	17		
							23		12

4WNDWH — Yfiler™ Plus

1	35,37	14	11,14	13	30	24	11	12	13
	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

6ATW8H — Yfiler™ Plus

1	35,37	14	11,14	13	30	24	11	12	13
	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

6E4X4L — Yfiler™ Plus, PowerPlex® Y 23

1	35,37	14	11,14	13	30	24	11	12	13
	15	12	12	19	29	16	17	10	23
	37	11	12	17	20	22	23	12	12

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 1 - YSTR Results

WebCode / Item									
6R969J	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
6W3CHE	PowerPlex® Y 23								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		23
		11	12	17	20		23	12	12
6WJ84M	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
72E89A	Yfiler™ Plus Direct Mode								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
774WK8	PowerPlex® Y 23								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		23
		11	12	17	20		23	12	12
79EUXN	PowerPlex® Y 23								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		23
		11	12	17	20		23	12	12
7ANQFL	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
7CBD39	Yfiler™ Plus Direct Mode								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
7G769J	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
7GQVBC	PowerPlex® Y 23								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		23
		11	12	17	20		23	12	12
7R4ZFM	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
7XHLG8	PowerPlex® Y 23								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		23
		11	12	17	20		23	12	12

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 1 - YSTR Results

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
7YMBKF — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
829LND — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
84ZBG8 — Yfiler™ Plus Direct Mode									
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
8UQ4EC — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
964QZH — Yfiler™									
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12
98R896 — PowerPlex® Y 23									
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		23
		11	12	17	20		23	12	12
9PTWK3 — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
A48J86 — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
A6GTXG — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
A6LYPD — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
AB8YWD — Yfiler™									
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12
AE23CX — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

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 1 - 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
B62FK7 Yfiler™ Plus Direct Mode	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
B7TKQX Yfiler™		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12
BDAACD PowerPlex® Y 23		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		23
		11	12	17	20		23	12	12
BDB8M9 Yfiler™ Plus	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
CBJ99B Yfiler™ Plus	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
D2KFGU Yfiler™	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
D3FUDY Yfiler™		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12
DG33E8 PowerPlex® Y 23		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		23
		11	12	17	20		23	12	12
DKHKHA Yfiler™ Plus	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
DWWHPY PowerPlex® Y 23		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		23
		11	12	17	20		23	12	12
DYMJT2 Yfiler™ Plus: Direct Mode	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
E7Z2E8 Yfiler™		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12

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 1 - YSTR Results

EAHCEX — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		23
	11	12	17	20			23	12	12

EDFX4E — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12

EGFT2W — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

ERY83D — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		23
	11	12	17	20			23	12	12

EYF7AX — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12

F9YPFF — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12

FDTTZ7 — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12

FW7FKT — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

HJX84M — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

J9P2FY — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		23
	11	12	17	20			23	12	12

J9U89U — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		23
	11	12	17	20			23	12	12

JEG8FU — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

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 1 - YSTR Results

JFMTNT	Yfiler™								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12
JNNYTV	Yfiler™ Plus Direct Mode								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
JVJ4CY	Yfiler™								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12
KGBPN7	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
KHFVF3	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
L4QFRT	Yfiler™ Plus: Direct Mode								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
LGXBZW	Yfiler™								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12
LPKD26	PowerPlex® Y 23								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		23
		11	12	17	20		23	12	12
MNUKT8	PowerPlex® Y 23								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		23
		11	12	17	20		23	12	12
NB2FZ2	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
NEHNN2	PowerPlex® Y 23								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		23
		11	12	17	20		23	12	12
NT34QZ	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

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 1 - YSTR Results

NTXXY6	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
P2QEEZ	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
PNJEHM	Yfiler™								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12
PQ9UWP	Yfiler™ Plus: Direct Mode								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
PQHVHH	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
QDZDNY	Yfiler™								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12
QQPAMC	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
R7U7DN	Yfiler™								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12
R9K8GR	Yfiler™								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12
RKCY2V	Yfiler™								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12
RZVH3C	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
T79RMQ	Yfiler™								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12

TABLE 2

Item 1 - 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
TBHD7G	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
TTJZXF	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
TWHCUF	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
TWPC3W	PowerPlex® Y 23								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		23
		11	12	17	20		23	12	12
U36KEX	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
U3AQ7U	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
UCUACL	PowerPlex® Y 23								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		23
		11	12	17	20		23	12	12
UJAYZL	Yfiler™ Plus: Direct Mode								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
V4V2AR	Yfiler™								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12
VA3JRT	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
VF8MF7	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
VKNPQH	PowerPlex® Y 23								
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		23
		11	12	17	20		23	12	12

TABLE 2

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

Item 1 - YSTR Results

VMQR7K — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

VV6JVJ — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

VV84RY — Yfiler™

Item									
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12

VVZ4JH — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

VY3TBR — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

W6KUHF — Yfiler™

Item									
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12

WYVD7P — Yfiler™

Item									
		14	11,14	13	30	24	11	12	13
1	15	12	12	19		16	17		
							23		12

XRWX6N — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

XXLDVG — Yfiler™ Plus: Direct Mode

Item									
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

YE7NVN — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

YGQPQB — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

YP2QBB — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

TABLE 2

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

Item 1 - YSTR Results

ZCRJV6	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
ZR8KTG	Yfiler™ Plus Direct Mode								
	35,37	14	11,14	13	30	24	11	12	13
1	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

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

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
6W3CHE	PowerPlex® Y 23								
	[14],15	11,14	13	29,[30]	23,[24]	11	[12],13		13
3	15	12	12	18,[19]		16	17		22,[23]
	[11],13	12	17	18,[20]			23	10,[12]	12
7GQVBC	PowerPlex® Y 23								
	[14],15	11,14	13	29,[30]	23,[24]	11	[12],13		13
3	15	12	12	18,[19]		16	17		22,[23]
	[11],13	12	17	18,[20]			23	10,[12]	12
AE23CX	Yfiler™ Plus								
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3	15	12	12	18,19	29	16	17	10,12	22,23
	37	13		17	18,20	22	23		12
D2KFGU									
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
DG33E8	PowerPlex® Y 23								
	14,15	11,14	13	29,30	23,24	11	12,13		13
3	15	12	12	18,19		16	17		22,23
	11,13	12	17	18,20			23	10,12	12
ERY83D	PowerPlex® Y 23								
	14,15	11,14	13	29,30	23,24	11	12,13		13
3	15	12	12	18,19		16	17		22,23
	11,13	12	17	18,20			23	10,12	12
PQHVHH	Yfiler™ Plus								
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
PRJNRP	Yfiler™ Plus								
	35,36	15	11,14	13	29	23	11	13	13
3	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12

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 3e - 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
2G3ZLK — Yfiler™		[14],15	11,14	13	29,[30]	23,[24]	11	[12],13	13
3e	15	12	12	18,[19]		16	17		
							23		12
2MRFCD — Yfiler™ Plus									
3e									
34VAJD — PowerPlex® Y 23		14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19		16	17		22,23
		11,13	12	17	18,20		23	10,12	12
3JN34D — Yfiler™		14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19		16	17		
							23		12
3M82G9 — Yfiler™ Plus	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
4F2ZKB — Yfiler™ Plus	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
4FH446 — Yfiler™		14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19		16	17		
							23		12
4WNDWH — Yfiler™ Plus	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
6ATW8H — Yfiler™ Plus	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
6E4X4L — PowerPlex® Y 23		14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19		16	17		22,23
		11,13	12	17	18,20		23	10,12	12
6R969J — Yfiler™ Plus	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
6WJ84M — Yfiler™ Plus	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12

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 3e - 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
72E89A — Yfiler™ Plus									
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
774WK8 — PowerPlex® Y 23									
		14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19		16	17		22,23
		11,13	12	17	18,20		23	10,12	12
79EUXN — PowerPlex® Y 23									
		14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19		16	17		22,23
		11,13	12	17	18,20		23	10,12	12
7ANQFL — Yfiler™ Plus									
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
7CBD39 — Yfiler™ Plus									
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
7G769J — Yfiler™ Plus									
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
7R4ZFM — Yfiler™									
	35,36,37	[14],15	11,14	13	29,[30]	23,[24]	11	[12],13	13
3e	15	12	12	18,[19]	29	16	17	[10],12	22,[23]
	37	[11],13		17	18,[20]	22	23		12
7XHLG8 — PowerPlex® Y 23									
		14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19		16	17		22,23
		11,13	12	17	18,20		23	10,12	12
7YMBKF — Yfiler™ Plus									
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
829LND — Yfiler™ Plus									
	35,36,37	[14],15	11,14	13	29,[30]	23,[24]	11	[12],13	13
3e	15	12	12	18,[19]	29	16	17	[10],12	22,[23]
	37	[11],13		17	18,[20]	22	23		12
84ZBG8 — Yfiler™ Plus									
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
8UQ4EC — Yfiler™ Plus									
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12

TABLE 2

Item 3e - 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
964QZH — Yfiler™		14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19		16	17		
							23		12
98R896 — PowerPlex® Y 23		14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19		16	17		22,23
	11,13	12		17	18,20		23	10,12	12
9PTWK3 — Yfiler™ Plus	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
A48J86 — Yfiler™ Plus									
3e									
A6GTXG — Yfiler™ Plus	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
A6LYPD — Yfiler™ Plus	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
AB8YWD — Yfiler™		[14],15	11,14	13	29,[30]	23,[24]	11	[12],13	13
3e	15	12	12	18,[19]		16	17		
							23		12
B62FK7 — Yfiler™ Plus	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
B7TKQX — Yfiler™		14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19		16	17		
							23		12
BDAACD — PowerPlex® Y 23		14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19		16	17		22,23
	11,13	12		17	18,20		23	10,12	12
BDB8M9 — Yfiler™ Plus	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
CBJ99B — Yfiler™ Plus	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12

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 3e - YSTR Results

D3FUDY — Yfiler™

3e		14,15	11,14	13	29,30	23,24	11	12,13	13
	15	12	12	18,19			16	17	
							23		12

DKHKHA — Yfiler™ Plus

3e	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12

DWWHPY — PowerPlex® Y 23

3e		14,15	11,14	13	29,30	23,24	11	12,13	13
	15	12	12	18,19			16	17	22,23
	11,13	12		17	18,20		23	10,12	12

DYMJT2 — Yfiler™ Plus

3e	35,36,[37]	[14],15	11,14	13	29,[30]	23,[24]	11	[12],13	13
	15	12	12	18,[19]	29	16	17	[10],12	22,[23]
	37	[11],13		17	18,[20]	22	23		12

E7Z2E8 — Yfiler™

3e		[14],15	11,14	13	29,[30]	23,[24]	11	[12],13	13
	15	12	12	18,[19]			16	17	
							23		12

EAHCEX — PowerPlex® Y 23

3e									

EDFX4E — Yfiler™

3e		14,15	11,14	13	29,30	23,24	11	12,13	13
	15	12	12	18,19			16	17	
							23		12

EGFT2W — Yfiler™ Plus

3e	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12

EYF7AX — Yfiler™

3e		14,15	11,14	13	29,30	23,24	11	12,13	13
	15	12	12	18,19			16	17	
							23		12

F9YPFF — Yfiler™

3e		14,15	11,14	13	29,30	23,24	11	12,13	13
	15	12	12	18,19			16	17	
							23		12

FDTTZ7 — Yfiler™

3e		[14],15	11,14	13	29,[30]	23,[24]	11	[12],13	13
	15	12	12	18,[19]			16	17	
							23		12

FW7FKT — Yfiler™ Plus

3e	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12

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 3e - YSTR Results

HJX84M — 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
3e	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12

J9U89U — PowerPlex® Y 23

Item									
3e		14,15	11,14	13	29,30	23,24	11	12,13	13
	15	12	12	18,19		16	17		22,23
		11,13	12	17	18,20		23	10,12	12

JEG8FU — Yfiler™ Plus

Item									
3e									

JFMTNT — Yfiler™

Item									
3e		14,15	11,14	13	29,30	23,24	11	12,13	13
	15	12	12	18,19		16	17		
							23		12

JNNYTV — Yfiler™ Plus

Item									
3e	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12

JVJ4CY — Yfiler™

Item									
3e		[14],15	11,14	13	29,[30]	23,[24]	11	[12],13	13
	15	12	12	18,[19]		16	17		
							23		12

KGBPN7 — Yfiler™ Plus

Item									
3e	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12

KHFVF3 — Yfiler™ Plus

Item									
3e	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12

L4QFRT — Yfiler™ Plus

Item									
3e	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12

LGXBZW — Yfiler™

Item									
3e		[14],15	11,14	13	29,[30]	23,[24]	11	[12],13	13
	15	12	12	18,[19]		16	17		
							23		12

LPKD26 — PowerPlex® Y 23

Item									
3e		14,15	11,14	13	29,30	23,24	11	12,13	13
	15	12	12	18,19		16	17		22,23
		11,13	12	17	18,20		23	10,12	12

MNUKT8 — PowerPlex® Y 23

Item									
3e		14,15	11,14	13	29,30	23,24	11	12,13	13
	15	12	12	18,19		16	17		22,23
		11,13	12	17	18,20		23	10,12	12

TABLE 2

Item 3e - 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
NB2FZ2	Yfiler™ Plus									
		35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e		15	12	12	18,19	29	16	17	10,12	22,23
		37	11,13		17	18,20	22	23		12
NEHNN2	PowerPlex® Y 23									
			14,15	11,14	13	29,30	23,24	11	12,13	13
3e		15	12	12	18,19		16	17		22,23
			11,13	12	17	18,20		23	10,12	12
NT34QZ	Yfiler™ Plus									
		35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e		15	12	12	18,19	29	16	17	10,12	22,23
		37	11,13		17	18,20	22	23		12
NTXXY6	Yfiler™ Plus									
		35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e		15	12	12	18,19	29	16	17	10,12	22,[23]
		37	11,13		17	18,20	22	23		12
P2QEEZ	Yfiler™ Plus									
		35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e		15	12	12	18,19	29	16	17	10,12	22,23
		37	11,13		17	18,20	22	23		12
PNJEHM	Yfiler™									
			14,15	11,14	13	29,30	23,24	11	12,13	13
3e		15	12	12	18,19		16	17		
								23		12
PQ9UWP	Yfiler™ Plus									
		35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e		15	12	12	18,19	29	16	17	10,12	22,23
		37	11,13		17	18,20	22	23		12
QDZDNY	Yfiler™									
			14,15	11,14	13	29,30	23,24	11	12,13	13
3e		15	12	12	18,19		16	17		
								23		12
QQPAMC	Yfiler™ Plus									
		35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e		15	12	12	18,19	29	16	17	10,12	22,23
		37	11,13		17	18,20	22	23		12
R7U7DN	Yfiler™									
			14,15	11,14	13	29,30	23,24	11	12,13	13
3e		15	12	12	18,19		16	17		
								23		12
R9K8GR	Yfiler™									
			[14],15	11,14	13	29,[30]	23,[24]	11	[12],13	13
3e		15	12	12	18,[19]		16	17		
								23		12
RKCY2V	Yfiler™									
			[14],15	11,14	13	29,[30]	23,[24]	11	[12],13	13
3e		15	12	12	18,[19]		16	17		
								23		12

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 3e - 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
RZVH3C	Yfiler™ Plus								
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
T79RMQ	Yfiler™								
		[14],15	11,14	13	29,[30]	23,[24]	11	[12],13	13
3e	15	12	12	18,[19]		16	17		
							23		12
TBHD7G	Yfiler™ Plus								
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
TTJZXF	Yfiler™ Plus								
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
TWHCUF	Yfiler™ Plus								
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
TWPC3W	PowerPlex® Y 23								
		14,15	11,14	13	29,30	23,[24]	11	12,13	13
3e	15	12	12	18,19		16	17		22,23
		11,13	12	17	18,20		23	10,12	12
U36KEX	Yfiler™ Plus								
	35,36,37	[14],15	11,14	13	29,[30]	23,[24]	11	[12],13	13
3e	15	12	12	18,[19]	29	16	17	[10],12	22,[23]
	37	11,13		17	18,[20]	22	23		12
U3AQ7U	Yfiler™ Plus								
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
UCUACL	PowerPlex® Y 23								
		14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19		16	17		22,23
		11,13	12	17	18,20		23	10,12	12
UJAYZL	Yfiler™ Plus								
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
V4V2AR	Yfiler™								
		14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19		16	17		
							23		12
VA3JRT	Yfiler™ Plus								
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12

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 3e - 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
VF8MF7 — Yfiler™ Plus									
	35,36,[37]	[14],15	11,14	13	29,[30]	23,[24]	11	[12],13	13
3e	15	12	12	18,[19]	29	16	17	[10],12	22,[23]
	37	[11],13		17	18,[20]	22	23		12
VKNPQH — PowerPlex® Y 23									
		14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19		16	17		22,23
		11,13	12	17	18,20		23	10,12	12
VMQR7K — Yfiler™ Plus									
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
VV6JVJ — Yfiler™ Plus									
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
VV84RY — Yfiler™									
		14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19		16	17		
							23		12
VVZ4JH — Yfiler™ Plus									
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
VY3TBR — Yfiler™ Plus									
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
W6KUHF — Yfiler™									
		14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19		16	17		
							23		12
WYVD7P — Yfiler™									
		[14],15	11,14	13	29,[30]	23,[24]	11	[12],13	13
3e	15	12	12	18,[19]		16	17		
							23		12
XRWX6N — Yfiler™ Plus									
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
XXLDVG — Yfiler™ Plus									
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
YE7NVN — Yfiler™ Plus									
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12

TABLE 2

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

Item 3e - YSTR Results

YGQPQB	Yfiler™ Plus								
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
YP2QBB	Yfiler™ Plus								
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
ZCRJV6	Yfiler™ Plus								
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12
ZR8KTG	Yfiler™ Plus								
	35,36,37	14,15	11,14	13	29,30	23,24	11	12,13	13
3e	15	12	12	18,19	29	16	17	10,12	22,23
	37	11,13		17	18,20	22	23		12

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 3sp - 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
2G3ZLK — Yfiler™									
		[14],15	11,14	13	29,[30]	23	11	[12],13	13
3sp	15	12	12	18,[19]		16	17		
							23		12
2MRFCD — Yfiler™ Plus									
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
34VAJD — PowerPlex® Y 23									
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		22
		13	12	17	18		23	10	12
3JN34D — Yfiler™									
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		
							23		12
3M82G9 — Yfiler™ Plus									
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
4F2ZKB — Yfiler™ Plus									
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
4FH446 — Yfiler™									
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		
							23		12
4WNDWH — Yfiler™ Plus									
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
6ATW8H — Yfiler™ Plus									
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
6E4X4L — PowerPlex® Y 23									
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		22
		13	12	17	18		23	10	12
6R969J — Yfiler™ Plus									
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
6WJ84M — Yfiler™ Plus									
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12

TABLE 2

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

Item 3sp - YSTR Results

Item									
72E89A	Yfiler™ Plus								
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
774WK8	PowerPlex® Y 23								
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		22
		13	12	17	18		23	10	12
79EUXN	PowerPlex® Y 23								
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		22
		13	12	17	18		23	10	12
7ANQFL	Yfiler™ Plus								
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
7CBD39	Yfiler™ Plus								
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
7G769J	Yfiler™ Plus								
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
7R4ZFM	Yfiler™								
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
7XHLG8	PowerPlex® Y 23								
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		22
		13	12	17	18		23	10	12
7YMBKF	Yfiler™ Plus								
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
829LND	Yfiler™ Plus								
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
84ZBG8	Yfiler™ Plus								
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
8UQ4EC	Yfiler™ Plus								
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12

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 3sp - 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
964QZH Yfiler™		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		
							23		12
98R896 PowerPlex® Y 23		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		22
	13	12	17	18			23	10	12
9PTWK3 Yfiler™ Plus	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
A48J86 Yfiler™ Plus	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
A6GTXG Yfiler™ Plus	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
A6LYPD Yfiler™ Plus	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
AB8YWD Yfiler™		[14],15	11,14	13	29,[30]	23,[24]	11	[12],13	13
3sp	15	12	12	18		16	17		
							23		12
B62FK7 Yfiler™ Plus	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
B7TKQX Yfiler™		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		
							23		12
BDAACD PowerPlex® Y 23		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		22
	13	12	17	18			23	10	12
BDB8M9 Yfiler™ Plus	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
CBJ99B Yfiler™ Plus	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12

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 3sp - 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
D3FUDY — Yfiler™									
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		
							23		12
DKHKHA — Yfiler™ Plus									
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
DWWHPY — PowerPlex® Y 23									
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		22
		13	12	17	18		23	10	12
DYMJT2 — Yfiler™ Plus									
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
E7Z2E8 — Yfiler™									
		[14],15	11,14	13	29,[30]	23	11	13	13
3sp	15	12	12	18		16	17		
							23		12
EAHCEX — PowerPlex® Y 23									
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		22
		13	12	17	18		23	10	12
EDFX4E — Yfiler™									
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		
							23		12
EGFT2W — Yfiler™ Plus									
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
EYF7AX — Yfiler™									
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		
							23		12
F9YPFF — Yfiler™									
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		
							23		12
FDTTZ7 — Yfiler™									
		[14],15	11,14	13	29,[30]	23,[24]	11	[12],13	13
3sp	15	12	12	18,[19]		16	17		
							23		12
FW7FKT — Yfiler™ Plus									
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12

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 3sp - 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
HJX84M — Yfiler™ Plus									
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
J9U89U — PowerPlex® Y 23									
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		22
		13	12	17	18		23	10	12
JEG8FU — Yfiler™ Plus									
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
JFMTNT — Yfiler™									
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		
							23		12
JNNYTV — Yfiler™ Plus									
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
JVJ4CY — Yfiler™									
		[14],15	11,14	13	29	23,[24]	11	[12],13	13
3sp	15	12	12	18		16	17		
							23		12
KGBPN7 — Yfiler™ Plus									
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
KHFVF3 — Yfiler™ Plus									
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
L4QFRT — Yfiler™ Plus									
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
LGXBZW — Yfiler™									
3sp									
LPKD26 — PowerPlex® Y 23									
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		22
		13	12	17	18		23	10	12
MNUKT8 — PowerPlex® Y 23									
		14,15	11,14	13	29,30	23	11	13	13
3sp	15	12	12	18		16	17		22
		11,13	12	17	18,20		23	10,12	12

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 3sp - YSTR Results

WebCode / Item									
NB2FZ2	Yfiler™ Plus								
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
NEHNN2	PowerPlex® Y 23								
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		22
		13	12	17	18		23	10	12
NT34QZ	Yfiler™ Plus								
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
NTXXY6	Yfiler™ Plus								
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
P2QEEZ	Yfiler™ Plus								
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
PNJEHM	Yfiler™								
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		
							23		12
PQ9UWP	Yfiler™ Plus								
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
QDZDNY	Yfiler™								
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		
							23		12
QQPAMC	Yfiler™ Plus								
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12
R7U7DN	Yfiler™								
		15	11,14	13	29	23	11	13	13
3sp	15	12	12	18		16	17		
							23		12
R9K8GR	Yfiler™								
		[14],15	11,14	13	29,[30]	23	11	13	13
3sp	15	12	12	18		16	17		
							23		12
RKCY2V	Yfiler™								
		[14],15	11,14	13	29,[30]	23	11	[12],13	13
3sp	15	12	12	18		16	17		
							23		12

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 3sp - YSTR Results

RZVH3C — Yfiler™ Plus

Item									
3sp	35,36	15	11,14	13	29	23	11	13	13
	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12

T79RMQ — Yfiler™

Item									
3sp									

TBHD7G — Yfiler™ Plus

Item									
3sp	35,36	15	11,14	13	29	23	11	13	13
	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12

TTJZXF — Yfiler™ Plus

Item									
3sp	35,36	15	11,14	13	29	23	11	13	13
	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12

TWHCUF — Yfiler™ Plus

Item									
3sp	35,36	15	11,14	13	29	23	11	13	13
	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12

TWPC3W — PowerPlex® Y 23

Item									
3sp		15	11,14	13	29	23	11	13	13
	15	12	12	18		16	17		22
		13	12	17	18		23	10	12

U36KEX — Yfiler™ Plus

Item									
3sp	35,36	15	11,14	13	29	23	11	13	13
	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12

U3AQ7U — Yfiler™ Plus

Item									
3sp	35,36	15	11,14	13	29	23	11	13	13
	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12

UCUACL — PowerPlex® Y 23

Item									
3sp		15	11,14	13	29	23	11	13	13
	15	12	12	18		16	17		22
		13	12	17	18		23	10	12

UJAYZL — Yfiler™ Plus

Item									
3sp	35,36	15	11,14	13	29	23	11	13	13
	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12

V4V2AR — Yfiler™

Item									
3sp		[14],15	11,14	13	29,[30]	23,[24]	11	[12],13	13
	15	12	12	18,[19]		16	17		
							23		12

VA3JRT — Yfiler™ Plus

Item									
3sp	35,36	15	11,14	13	29	23	11	13	13
	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12

TABLE 2

Item 3sp - 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
VF8MF7	Yfiler™ Plus	35,36	15	11,14	13	29	23	11	13	13
3sp		15	12	12	18	29	16	17	12	22
		37	13		17	18	22	23		12
VKNPQH	PowerPlex® Y 23		15	11,14	13	29	23	11	13	13
3sp		15	12	12	18		16	17		22
			13	12	17	18		23	10	12
VMQR7K	Yfiler™ Plus	35,36	15	11,14	13	29	23	11	13	13
3sp		15	12	12	18	29	16	17	12	22
		37	13		17	18	22	23		12
VV6JVJ	Yfiler™ Plus	35,36	15	11,14	13	29	23	11	13	13
3sp		15	12	12	18	29	16	17	12	22
		37	13		17	18	22	23		12
VV84RY	Yfiler™		15	11,14	13	29	23	11	13	13
3sp		15	12	12	18		16	17		
								23		12
VVZ4JH	Yfiler™ Plus	35,36	15	11,14	13	29	23	11	13	13
3sp		15	12	12	18	29	16	17	12	22
		37	13		17	18	22	23		12
VY3TBR	Yfiler™ Plus	35,36	15	11,14	13	29	23	11	13	13
3sp		15	12	12	18	29	16	17	12	22
		37	13		17	18	22	23		12
W6KUHF	Yfiler™		15	11,14	13	29	23	11	13	13
3sp		15	12	12	18		16	17		
								23		12
WYVD7P	Yfiler™		[14],15	11,14	13	29,[30]	23,[24]	11	[12],13	13
3sp		15	12	12	18,[19]		16	17		
								23		12
XRWX6N	Yfiler™ Plus	35,36	15	11,14	13	29	23	11	13	13
3sp		15	12	12	18	29	16	17	12	22
		37	13		17	18	22	23		12
XXLDVG	Yfiler™ Plus	35,36	15	11,14	13	29	23	11	13	13
3sp		15	12	12	18	29	16	17	12	22
		37	13		17	18	22	23		12
YE7NVN	Yfiler™ Plus	35,36	15	11,14	13	29	23	11	13	13
3sp		15	12	12	18	29	16	17	12	22
		37	13		17	18	22	23		12

TABLE 2

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

Item 3sp - YSTR Results

YGQPQB	Yfiler™ Plus								
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12

YP2QBB	Yfiler™ Plus								
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12

ZCRJV6	Yfiler™ Plus								
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12

ZR8KTG	Yfiler™ Plus								
	35,36	15	11,14	13	29	23	11	13	13
3sp	15	12	12	18	29	16	17	12	22
	37	13		17	18	22	23		12

TABLE 2

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

Item 4 - YSTR Results

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
2G3ZLK — Yfiler™									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		
							23		12
2MRFCD — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
34VAJD — PowerPlex® Y 23									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		23
	11	12		17	20		23	12	12
3M82G9 — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
4ERV62 — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
4F2ZKB — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
4FH446 — Yfiler™									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		
							23		12
4WNDWH — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
6ATW8H — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
6E4X4L — PowerPlex® Y 23									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		23
	11	12		17	20		23	12	12
6R969J — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
6W3CHE — PowerPlex® Y 23									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		23
	11	12		17	20		23	12	12

TABLE 2

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

Item 4 - YSTR Results

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
6WJ84M — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
72E89A — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
774WK8 — PowerPlex® Y 23									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		23
	11	12		17	20		23	12	12
79EUXN — PowerPlex® Y 23									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		23
	11	12		17	20		23	12	12
7ANQFL — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
7CBD39 — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
7G769J — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
7GQVBC — PowerPlex® Y 23									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		23
	11	12		17	20		23	12	12
7R4ZFM — Yfiler™									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
7XHLG8 — PowerPlex® Y 23									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		23
	11	12		17	20		23	12	12
7YMBKF — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
829LND — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

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

84ZBG8 — Yfiler™ Plus

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35,37	14	11,14	13	30	24	11	12	13
15	12	12	19	29	16	17	10	23
37	11		17	20	22	23		12

Item 4

964QZH — Yfiler™

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	14	11,14	13	30	24	11	12	13
15	12	12	19		16	17		
						23		12

Item 4

98R896 — PowerPlex® Y 23

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	14	11,14	13	30	24	11	12	13
15	12	12	19		16	17		23
	11	12	17	20		23	12	12

Item 4

A48J86 — Yfiler™ Plus

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35,37	14	11,14	13	30	24	11	12	13
15	12	12	19	29	16	17	10	23
37	11		17	20	22	23		12

Item 4

A6GTXG — Yfiler™ Plus

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35,37	14	11,14	13	30	24	11	12	13
15	12	12	19	29	16	17	10	23
37	11		17	20	22	23		12

Item 4

A6LYPD — Yfiler™ Plus

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35,37	14	11,14	13	30	24	11	12	13
15	12	12	19	29	16	17	10	23
37	11		17	20	22	23		12

Item 4

AB8YWD — Yfiler™

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	14	11,14	13	30	24	11	12	13
15	12	12	19		16	17		
						23		12

Item 4

AE23CX — Yfiler™ Plus

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35,37	14	11,14	13	30	24	11	12	13
15	12	12	19	29	16	17	10	23
37	11		17	20	22	23		12

Item 4

B62FK7 — Yfiler™ Plus

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35,37	14	11,14	13	30	24	11	12	13
15	12	12	19	29	16	17	10	23
37	11		17	20	22	23		12

Item 4

B7TKQX — Yfiler™

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	14	11,14	13	30	24	11	12	13
15	12	12	19		16	17		
						23		12

Item 4

BDAACD — PowerPlex® Y 23

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	14	11,14	13	30	24	11	12	13
15	12	12	19		16	17		23
	11	12	17	20		23	12	12

Item 4

BDB8M9 — Yfiler™ Plus

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35,37	14	11,14	13	30	24	11	12	13
15	12	12	19	29	16	17	10	23
37	11		17	20	22	23		12

Item 4

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

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
CBJ99B — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
D2KFGU — Yfiler™									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
D3FUDY — Yfiler™									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		
							23		12
DG33E8 — PowerPlex® Y 23									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		23
		11	12	17	20		23	12	12
DKHKHA — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
DWWHPY — PowerPlex® Y 23									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		23
		11	12	17	20		23	12	12
DYMJT2 — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
E7Z2E8 — Yfiler™									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		
							23		12
EDFX4E — Yfiler™									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		
							23		12
EGFT2W — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
ERY83D — PowerPlex® Y 23									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		23
		11	12	17	20		23	12	12
EYF7AX — Yfiler™									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		
							23		12

TABLE 2

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

Item 4 - YSTR Results

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
F9YPFF — Yfiler™		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		
							23		12
FDTTZ7 — Yfiler™		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		
							23		12
FW7FKT — Yfiler™ Plus	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
HJX84M — Yfiler™ Plus	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
J9P2FY — PowerPlex® Y 23		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		23
	11	12	17	20			23	12	12
J9U89U — PowerPlex® Y 23		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		23
	11	12	17	20			23	12	12
JEG8FU — Yfiler™ Plus	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
JFMTNT — Yfiler™		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		
							23		12
JNNYTV — Yfiler™ Plus	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
JVJ4CY — Yfiler™		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		
							23		12
KGBPN7 — Yfiler™ Plus	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
KHFVF3 — Yfiler™ Plus	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

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

L4QFRT — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

LGXBZW

Item									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		
							23		12

LPKD26 — PowerPlex® Y 23

Item									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		23
		11	12	17	20		23	12	12

MNUKT8 — PowerPlex® Y 23

Item									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		23
		11	12	17	20		23	12	12

NB2FZ2 — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

NEHNN2 — PowerPlex® Y 23

Item									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		23
		11	12	17	20		23	12	12

NT34QZ — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

NTXXY6 — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

P2QEEZ — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

PNJEHM — Yfiler™

Item									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		
							23		12

PQ9UWP — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

PQHVHH — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

TABLE 2

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

Item 4 - YSTR Results

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
PRJNRP — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
QDZDNY — Yfiler™									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		
							23		12
QQPAMC — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
R7U7DN — Yfiler™									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		
							23		12
R9K8GR — Yfiler™									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		
							23		12
RKCY2V — Yfiler™									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		
							23		12
RZVH3C — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
T79RMQ — Yfiler™									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		
							23		12
TBHD7G — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
TTJZXF — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
TWHCUF — Yfiler™ Plus									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12
TWPC3W — PowerPlex® Y 23									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		23
		11	12	17	20		23	12	12

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

U36KEX — Yfiler™ Plus (Item 4)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35,37	14	11,14	13	30	24	11	12	13
15	12	12	19	29	16	17	10	23
37	11		17	20	22	23		12

U3AQ7U — Yfiler™ Plus (Item 4)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35,37	14	11,14	13	30	24	11	12	13
15	12	12	19	29	16	17	10	23
37	11		17	20	22	23		12

UCUACL — PowerPlex® Y 23 (Item 4)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	14	11,14	13	30	24	11	12	13
15	12	12	19		16	17		23
11	12		17	20		23	12	12

UJAYZL — Yfiler™ Plus (Item 4)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35,37	14	11,14	13	30	24	11	12	13
15	12	12	19	29	16	17	10	23
37	11		17	20	22	23		12

V4V2AR — Yfiler™ (Item 4)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	14	11,14	13	30	24	11	12	13
15	12	12	19		16	17		
						23		12

VA3JRT — Yfiler™ Plus (Item 4)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35,37	14	11,14	13	30	24	11	12	13
15	12	12	19	29	16	17	10	23
37	11		17	20	22	23		12

VF8MF7 — Yfiler™ Plus (Item 4)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35,37	14	11,14	13	30	24	11	12	13
15	12	12	19	29	16	17	10	23
37	11		17	20	22	23		12

VKNPQH — PowerPlex® Y 23 (Item 4)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	14	11,14	13	30	24	11	12	13
15	12	12	19		16	17		23
11	12		17	20		23	12	12

VMQR7K — Yfiler™ Plus (Item 4)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35,37	14	11,14	13	30	24	11	12	13
15	12	12	19	29	16	17	10	23
37	11		17	20	22	23		12

VV6JVJ — Yfiler™ Plus (Item 4)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35,37	14	11,14	13	30	24	11	12	13
15	12	12	19	29	16	17	10	23
37	11		17	20	22	23		12

VV84RY — Yfiler™ (Item 4)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	14	11,14	13	30	24	11	12	13
15	12	12	19		16	17		
						23		12

VVZ4JH — Yfiler™ Plus (Item 4)

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35,37	14	11,14	13	30	24	11	12	13
15	12	12	19	29	16	17	10	23
37	11		17	20	22	23		12

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

VY3TBR — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

W6KUHF — Yfiler™

Item									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		
							23		12

WYVD7P — Yfiler™

Item									
		14	11,14	13	30	24	11	12	13
4	15	12	12	19		16	17		
							23		12

XRWX6N — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

XXLDVG — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

YE7NVN — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

YGQPQB — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

YP2QBB — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

ZCRJV6 — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

ZR8KTG — Yfiler™ Plus

Item									
	35,37	14	11,14	13	30	24	11	12	13
4	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

TABLE 2

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

Item 4e - YSTR Results

3JN34D	Yfiler™								
		14	11,14	13	30	24	11	12	13
4e	15	12	12	19		16	17		
							23		12

9PTWK3	Yfiler™ Plus								
	35,37	14	11,14	13	30	24	11	12	13
4e	15	12	12	19	29	16	17	10	23
	37	11		17	20	22	23		12

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TABLE 2

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

Item 4sp - YSTR Results

3JN34D	Yfiler™								
			INC(14)	13		24	11	12	13
4sp	15	12		19		16	17		
							23		12
9PTWK3	Yfiler™ Plus								
	37	14	NR	NR	NR	NR	NR	NR	13
4sp	NR	NR	NR	NR	NR	16	NR	NR	NR
	NR	11		NR	NR	NR	NR		12

Additional DNA Results

TABLE 3

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

Locus	WebCode	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4	Item 4e	Item 4sp
DXS10074	4ERV62	16	15,17				16		
	R4UTXC	16	15,17				16		
DXS10079	4ERV62	20	20				20		
	R4UTXC	20	20				20		
DXS10101	4ERV62	28.2	30.2,33				28.2		
	R4UTXC	28.2	30.2,33				28.2		
DXS10103	4ERV62	17	17,20				17		
	R4UTXC	17	17,20				17		
DXS10134	4ERV62	34	39.3,42.3				34		
	R4UTXC	34	39.3,42.3				34		
DXS10135	4ERV62	20	23,24				20		
	R4UTXC	20	23,24				20		
DXS10146	4ERV62	31	27,39.2				31		
	R4UTXC	31	27,39.2				31		
DXS10148	4ERV62	25.1	26.1				25.1		
	R4UTXC	25.1	26.1				25.1		
DXS7132	4ERV62	15	13				15		
	R4UTXC	15	13				15		
DXS7423	4ERV62	14	14,15				14		
	R4UTXC	14	14,15				14		
DXS8378	4ERV62	11	11				11		
	R4UTXC	11	11				11		
F13A01	6E4X4L	6	3.2,6						
F13B	6E4X4L	6,10	9,10						
FESFPS	6E4X4L	11	11,13						
HPRTB	4ERV62	11	12,13				11		
	R4UTXC	11	12,13				11		
LPL	6E4X4L	10,12	10,11						
PENTA C	6E4X4L	10,13	11,12						

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
2CARJY	Yes	Yes	No	No	4WNDWH	Yes	Yes	No	No
2CBPUV	Yes	Yes	No	No	6ATW8H	Yes	Yes	No	No
2EUQPG	No	Yes	No	No	6E4X4L	Yes	Yes	No	No
2G3ZLK	Inc	Yes	No Interp	No Interp	6HNYAU	Yes	Yes	No	No
2LWYVA	Yes	Yes	No	No	6R969J	Yes	Yes	No	No
2MRFCD	Yes	Yes	No	No	6UZ7AZ	Yes	Yes	No	No
2PDDNA	Yes	Yes	No	No	6W3CHE	Yes	Yes	No	No
34VAJD	Yes	Yes	No	No	6W6UPQ	Yes	Yes	No	No
3JN34D	Yes	Yes	No Interp	No Interp	6WJ84M	Yes	Yes	No	No
3M82G9	Yes	Yes	No	No	72E89A	Yes	Yes	No	No
3PCPYJ	Yes	Yes	No	No	774WK8	Yes	Yes	No	No
42GHPM	Yes	Yes	No	No	79EUXN	Yes	Yes	No	No
466PDP	Yes	Yes	No	No	7ANQFL	Yes	Yes	No	No
46YP69	Yes	Yes	No	No	7CBD39	Yes	Yes	No	No
4E4E3D	Yes	Yes	No	No	7D9QLU	Yes	Yes	No	No
4ERV62	No Interp	Yes	No Interp	No	7G4M29	Yes	Yes	No	No
4F2ZKB	Yes	Yes	No	No	7G769J	Yes	Yes	No	No
4FH446	Yes	Yes	No	No	7GQVBC	Yes	Yes	No	No
4GGZ2F	Yes	Yes	No	No	7PJ7L8	Yes	Yes	No	No
4RUGAC	Yes	Yes	No	No	7R4ZFM	Yes	Yes	No	No

TABLE 4

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
7XHLG8	Yes	Yes	No	No	A8RGN9	Yes	Yes	No	No
7YMBKF	Yes	Yes	No	No	AAE2QR	Yes	Yes	No	No
829LND	Yes	Yes	No	No	AB8YWD	Yes	Yes	No Interp	No Interp
84ZBG8	Yes	Yes	No	No	AB9PC9	Yes	Yes	No	No
8NLBHV	Yes	Yes	No	No	AE23CX	Yes	Yes	No	No
8RG4A6	Yes	Yes	No	No	AJ4RDJ	Yes	Yes	No	No
8RN4HL	Yes	Yes	No	No	AJWR63	Yes	Yes	No	No
8U96D9	Yes	Yes	No	No	AUY8U8	Yes	Yes	No	No
8UQ4EC	Yes	Yes	No	No	AYVLNP	Yes	Yes	No	No
8XYLDZ	Yes	Yes	No	No	B62FK7	Yes	Yes	No	No
924F6H	Yes	Yes	No	No	B7TKQX	Yes	Yes	No	No
964QZH	Yes	Yes	No	No	BDAACD	Yes	Yes	No Interp	No Interp
98R896	Yes	Yes	No	No	BDB8M9	Yes	Yes	No	No
98VMPC	Yes	Yes	No	No	BF2728	Yes	Yes	No	No
9PTWK3	Yes	Yes	No	No	BRAZ76	Yes	Yes	No	No
9XQHXV	Yes	Yes	No	No	BUFEZP	Yes	Yes	No	No
9YGV4K	Yes	Yes	No	No	C4EHG6	Yes	Yes	No	No
A3WR3V	Yes	Yes	No	No	CBJ99B	Yes	Yes	No	No
A48J86	Yes	Yes	No	No	CFD6VF	Yes	Yes	No	No
A6GTXG	Yes	Yes	No	No	CG76MZ	No Interpretations Reported, DNA Analyzed for Database purposes only.			
A6LYPD	Yes	Yes	No	No	CYN7FG	Yes	Yes	No	No

TABLE 4

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
D2KFGU	Yes	Yes	No	No	FE9XUX	Yes	Yes	No	No
D3FUDY	Yes	Yes	No	No	FMHKMY	Yes	Yes	No	No
D3MVMF	Yes	Yes	No	No	FND6AX	No Interp	No Interp	No Interp	No Interp
D74233	Yes	Yes	No	No	FQGX94				
DG33E8	Yes	Yes	No	No	FW7FKT	Yes	Yes	No	No
DKHKHA	Yes	Yes	No	No	GFEVJZ	Yes	Yes	No	No
DWWHPY	Yes	Yes	No	No	GFFLXV	Yes	Yes	No	No
DYMJT2	Yes	Yes	No	No	GH7WM3	Yes	Yes	No	No
E7Z2E8	Yes	Yes	No Interp	No Interp	H3HBDT	Yes	Yes	No	No
EAHCEX	Yes	Yes	No	No	H3PBLA	Yes	Yes	No	No
EC46ZZ	Yes	Yes	No	No	HAL9AC	Yes	Yes	No	No
EDFX4E	Yes	Yes	No	No	HCANGY	Yes	Yes	No	No
EGFT2W	Yes	Yes	No	No	HG4QGR	Yes	Yes	No	No
EGZL6E	Yes	Yes	No	No	HJX84M	Yes	Yes	No	No
EHTKVY	Yes	Yes	No	No	J77ZLC	Yes	Yes	No	No
ERY83D	Yes	Yes	No	No	J9P2FY	Yes	Yes	No	No
EXL7HD	Yes	Yes	No	No	J9U89U	Yes	Yes	No	No
EYF7AX	Yes	Yes	No	No	JEG8FU	Yes	Yes	No	No
F8T8GJ	Yes	Yes	No	No	JFMTNT	Yes	Yes	No	No
F9YPFF	Yes	Yes	No	No	JFUUXA	Yes	Yes	No	No
FDTTZ7	Inc	Yes	No Interp	No Interp	JHU32J	Yes	Yes	No	No

TABLE 4

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
JK32CR	Yes	Yes	No	No	MNUKT8	Yes	Yes	No	No
JNNYTV	Yes	Yes	No	No	MP3VMQ	Yes	Yes	No	No
JVJ4CY	Yes	Yes	No Interp	No Interp	MQHREP	Yes	Yes	No	No
JYMJ6W	Yes	Yes	No	No	MRTWN8	Yes	Yes	No	No
KGBPN7	Yes	Yes	No	No	MUH3BP	Yes	Yes	No	No
KHFVF3	Yes	Yes	No	No	MXXKJU	Yes	Yes	No	No
KLCG86	Yes	Yes	No	No	N6WJEF	Yes	Yes	No	No
KN4HB8	Yes	Yes	No	No	NB2FZ2	Yes	Yes	No	No
KRGFHU	Yes	Yes	No	No	NEHNN2	Yes	Yes	No Interp	No Interp
KWU2PF	Yes	Yes	No	No	NFBNEK	Yes	Yes	No	No
KWVXZC	Yes	Yes	No	No	NT34QZ	Yes	Yes	No	No
KYXW9J	Yes	Yes	No	No	NTXXY6	Yes	Yes	No	No
L4QFRT	Yes	Yes	No	No	P2QEEZ	Yes	Yes	No	No
LGXBZW	Yes	Yes	No	No	PNJEHM	Yes	Yes	No	No
LPKD26	Yes	Yes	No	No	PNY2RP	Yes	Yes	No	No
M8MLLP	Yes	Yes	No	No	PQ9UWP	Yes	Yes	No	No
MB23VU	Yes	Yes	No	No	PQBQ3E	Yes	Yes	No	No
MCXNHT	Yes	Yes	No	No	PQHVHH	Yes	Yes	No	No
MDT6YW					PRJNRP	Yes	Yes	No	No
MLPRZU	Yes	Yes	No	No	PTZVZR	Yes	Yes	No	No
MNTMHC	Yes	Yes	No	No	PV3UD7	Yes	Yes	No	No

TABLE 4

| WebCode | Victim (Item 1) | | Suspect (Item 2) | | WebCode | Victim (Item 1) | | Suspect (Item 2) | |
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
PVLF4B	Yes	Yes	No	No	RTPZ8W	Yes	Yes	No	No
PZZFZ3	Yes	Yes	No	No	RZVH3C	Yes	Yes	No	No
Q8A2LB	Yes	Yes	No	No	T2TJYQ				
QDZDNY	Yes	Yes	No	No	T79RMQ	No	No	Yes	Yes
QQPAMC	Yes	Yes	No	No	T8NANB	Yes	Yes	No	No
QRH7C7	Yes	Yes	No	No	TBHD7G	Yes	Yes	No	No
QVGQQP	Yes	Yes	No	No	TEHGZP	Yes	Yes	No	No
QZTEQL	Yes	Yes	No	No	THKFG9	Yes	Yes	No	No
R3WFFP	Yes	Yes	No	No	TK6BXM	Yes	Yes	No	No
R4UTXC	No Interp	Yes	No Interp	No	TPKJLL	No Interp	No Interp	No Interp	No Interp
R7U7DN	Yes	Yes	No	No	TTJZXF	Yes	Yes	No	No
R7XNJZ	Yes	Yes	No	No	TWHCUF	Yes	Yes	No	No
R89Q7Y	Yes	Yes	No	No	TWPC3W	Yes	Yes	No	No
R9GPEL	Yes	Yes	No	No	U36KEX	Yes	Yes	No	No
R9K8GR	Inc	Yes	No Interp	No Interp	U3AQ7U	Yes	Yes	No	No
R9NPM3	Yes	Yes	No	No	U6WTPM	Yes	Yes	No	No
RAYRA2	Yes	Yes	No	No	U8HCR6	Yes	Yes	No	No
RCNYUX	Yes	Yes	No	No	UAADV9	Yes	Yes	No	No
RGWGRQ	Yes	Yes	No	No	UCUACL	Yes	Yes	No	No
RKCY2V	Yes	Yes	No Interp	No Interp	UJAYZL	Yes	Yes	No	No
RLA3YC	Yes	Yes	No	No	V4V2AR	Inc	Yes	No Interp	No Interp

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
VA3JRT	Yes	Yes	No	No	XUPUUH	Yes	Yes	No	No
VAJUAX	Yes	Yes	No	No	XXLDVG	Yes	Yes	No	No
VF8MF7	Yes	Yes	No	No	Y6UJWC	Yes	Yes	No	No
VKNPQH	Yes	Yes	No	No	Y82X4H	Yes	Yes	No	No
VMQR7K	Yes	Yes	No	No	Y874VE	Yes	Yes	No	No
VV6JVJ	Yes	Yes	No	No	YAUL9T	Yes	Yes	No	No
VV84RY	Yes	Yes	No	No	YE7NVN	Yes	Yes	No	No
VVZ4JH	Yes	Yes	No	No	YGQPQB	Yes	Yes	No	No
VY3TBR	Yes	Yes	No	No	YMVLDG				
W3TV4G	No Interp	No Interp	No Interp	No Interp	YP2QBB	Yes	Yes	No	No
W6KUHF	Yes	Yes	No	No	YUXLWJ	Yes	Yes	No	No
W6RURW	Yes	Yes	No	No	Z36K4Y	No Interpretations Reported, DNA Analyzed for Database purposes only.			
W7T8ZG	Yes	Yes	No	No	Z4XHAK	Yes	Yes	No	No
WEV8L6	No Interp	No Interp	No Interp	No Interp	Z6EE3K				
WFL9P8	Yes	Yes	No	No	Z8GHNF	Yes	Yes	No	No
WTCXQY	Yes	Yes	No	No	ZCRJV6	Yes	Yes	No	No
WUNM4J	Yes	Yes	No	No	ZEZWGD	Yes	Yes	No	No
WVFVXK	Yes	Yes	No	No	ZMVVTK	Yes	Yes	No	No
WYVD7P	Inc	Yes	No Interp	No Interp	ZN99VV	Yes	Yes	No	No
XCKMCV	Yes	Yes	No	No	ZR8KTG	Yes	Yes	No	No
XRWX6N	Yes	Yes	No	No	ZZJZ2G	Yes	Yes	No	No

DNA Interpretation

Response Summary   **Participants reporting DNA results: 250**

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	230	238	1	1
No	2	1	224	226
Inc	5	0	0	0
No Interpretation	6	4	18	16
No Response	5	5	5	5

Participants analyzing DNA for database purposes only: 2

Additional Comments

TABLE 5

WebCode	Additional Comments
2CARJY	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
2G3ZLK	Y-STR testing was performed and the female known reference was not processed.
3JN34D	Screening results: Screening test not performed on Item 1: Known blood from male victim. Screening test not performed no Item 2: Known blood from the female suspect. Screening for the presence of male DNA using the Plexor HY real time PCR system was performed on Item 3: Questioned blood and semen stain from suspect's bed sheet (green). Male DNA was detected on this item. Screening for the presence of male DNA using the Plexor HY real time PCR system was performed on Item 4: Questioned blood stain from victim's underwear (yellow). Male DNA was detected on this item. Microscopic examination for spermatozoa was performed on Item 3. Spermatozoa were detected on this item. Microscopic examination for spermatozoa was performed on Item 4. Spermatozoa were not detected on this item.
3M82G9	STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X. NR = no results
42GHPM	STRmix analysis was conducted on this test.
466PDP	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
46YP69	NR = no DNA result
4E4E3D	Unknown male DNA was obtained from item 3 (Semen stain)
4ERV62	Item 3 not tested due to lack of approved semen extraction techniques for missing persons casework. MiniFiler results for Item 4 concordant with GlobalFiler results. Additional loci are X-chromosome loci from the ArgusX amp kit. ArgusX results for Amel and D21S11 were consistent with GlobalFiler results.
4F2ZKB	YS results: Male DNA was detected on Item 3 and Item 4. NR = No Result.
4FH446	Extraction: -Item 1 and Item 2 were extracted using Chelex extraction method. -Item 3 and Item 4 were extracted using DNA Investigator kit via QIAsymphony SP. Quantitation: -All items were quantified using ABI Quantifiler Trio DNA Quantification kit on RT-PCR QuantStudio 5 System. Amplification: -All items were amplified using Globalfiler Amplification kit on ABI GeneAmp PCR System 9700 (for STR analysis) and AmpFLSTR Yfiler PCR Amplification kit on ABI GeneAmp PCR System 9700 for (Y-STR analysis). Electrophoresis: -Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4 for both GlobalFiler and Y-Filer product. Quality Control: -Reagent blank, Positive Control and Negative Control were carried out during analysis and all gave intended results. NM = non-male profile.
6HNYAU	STRmix used so stutter left in, where applicable, for Items 3 and 4.
6WJ84M	NR=no results. Data reported analyzed with GeneMapper ID-X. STRmix analysis was performed on this test.

TABLE 5

WebCode	Additional Comments
72E89A	Items 3 and 4 were taken through y-screen (male DNA screening), using QF Trio with male DNA detected for both. Item 2 was amplified using Y-Filer Plus Direct Mode. No Y-STR profile was obtained. NR = No Results.
7CBD39	Items 1C and 1D were tested with the Y-Screen Assay. Items 1C and 1D tested positive for male DNA with the Y-Screen Assay. Items 1A and 1B were not tested with the Y-Screen Assay.
7D9QLU	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping, stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
84ZBG8	NR = No Results. Y-Screen Assay Results: Item 3: Positive for human male DNA. Item 4: Positive for human male DNA.
8RN4HL	Item 3 - SFRAC results: Victim = LR supports non-contribution of DNA. Suspect = LR supports non-contribution of DNA (technically not an exclusion but no other option in the binary DNA interpretation table above). Item 3 - EFRAC results: Victim = LR supports contribution of DNA. Suspect = LR excluded from contributing DNA (LR = 0)
8U96D9	Screening for the presence of Male DNA using Plexor HY Real-Time PCR System was performed on Item 3 and Item 4. Male DNA was detected on Item 3: Questioned blood and semen stain from suspect's bed sheet (green). Male DNA was detected on Item 4: Questioned blood stain from victim's underwear (yellow). Spermatozoa were seen by microscopic examination of the sperm cell fraction of sample 3: Questioned blood and semen stain from suspect's bed sheet (green).
9PTWK3	"NR"= No Results. STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X.
9XQHXV	Possible elevated stutter and possible drop in left in because of STRmix analysis.
9YGV4K	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results. For Item 4, a possible elevated n-2 stutter peak (23 allele) was detected at locus D2S1338; however, it will be reported as allelic.
A6GTXG	NR = No Results. STRmix analysis was conducted on this test. Data reported out in this test is from analysis using GeneMapper ID-X.
AAE2QR	ND = NOT DETECTED. All potential alleles considered during deconvolution have been reported.
AB8YWD	Only Y-STR testing was performed. The female known reference was not processed.
B62FK7	NR = No Results. Item 1 analyzed with the Yfiler Plus PCR Amplification Kit in direct mode. Item 2 not analyzed for Y-STR DNA; source is biologically female. Mitochondrial DNA analysis is not performed by this laboratory. Note: For item 3 e, a Y-STR DNA mixture of at least two male individuals was obtained. [Laboratory] policy does not currently allow interpretative conclusions to be drawn from Y-STR DNA mixtures of this type.

TABLE 5

WebCode	Additional Comments
B7TKQX	Extraction: Item 1 and Item 2 were extracted using chelex extraction method. Item 3 and Item 4 were extracted using QIAsymphony DNA Investigator KIT via QIAsymphony SP. Quantification: Item 1, Item 2, 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, Item 2, Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Item 1, Item 3 and Item 4 were amplified using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4 (GlobalFiler Kit & Yfiler Kit). Quality Control: Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results. NM: Non-male profile
BUFEZP	For sample 3-1 S (the sperm fraction of the cutting from Item 3), both the victim and the suspect have limited support for their exclusion. Their LRs are .300 and .399, respectively. The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
D3FUDY	1. Item 1, Item 2, Item 3 and Item 4 were extracted using Chelex extraction method. 2. Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantifiler Kit on the Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 System. 3. Item 1, Item 2, Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification Kit on 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification was carried out on Item 1, Item 3 and Item 4 using AmpFLSTR Y-filer PCR Amplification kit on the 9700 GeneAmp PCR System. 4. Electrophoresis was carried out on the Applied Biosystems 3500xl Genetic Analyser with GeneMapper ID-X Software for Item 1, Item 2, Item 3 and Item 4. 5. Reagent blank, positive control and negative control were carried out throughout the analysis and all gave the intended results. 6. NM = Non-male profile.
D74233	Screening for the presence of male DNA using Promega's Plexor HY Real-Time PCR System was performed on Item 3 and Item 4. Male DNA was detected on Item 3: Questioned blood and semen stain from suspect's bed sheet (green). Male DNA was detected on Item 4: Questioned blood stain from victim's underwear (yellow). Spermatozoa were detected upon microscopic examination of Item 3.
DYMJT2	NR for item 2 = no results. Y-Screen (YS) Assay Results: 1A and 1B not screened with the YS assay; 1C = YS Positive; 1D = YS Positive.
E7Z2E8	Only Y-STR testing was performed; the female known reference was not processed.
EC46ZZ	Both items examined for the presence of semen and blood. Item 3 Blood present on the item - as expect if at least some of the bloodstaining has originated from victim. Semen present on the item - attributable to an unknown male. Item 4 Blood present on the item - attributable to victim. No sperm cells detected.
EGFT2W	NR = No Results. The data reported is from analysis using GeneMapper ID-X. STRmix analysis was performed on this test.
EGZL6E	No statistical evaluation was made for the interpretation of the 4 profiles. Profiles #1,2 and 4 are complete and individual. Profile #3 is a mixture of at least 2 individuals. In profile #3, are found the victim's DNA profile and the DNA profile of at least one unknown person.
EHTKVY	Victim is a contributor to the DNA profile obtained from the epithelial fraction of Item 3. Victim is not a contributor to the DNA profile obtained from the sperm fraction of Item 3.

TABLE 5

WebCode	Additional Comments
ERY83D	1- THE VICTIM AND AN UNKNOWN MALE ARE NOT EXCLUDED AS A CONTRIBUTORS OF THE MIXED CELLS FOUND IN THE ITEM 3. IS 3.5 E+12 TIMES MORE PROBABLE THIS FINDING IF THE MIXTURE COMES FROM THE VICTIM AND THE UNKNOWN MALE THAN IF THE MIXTURE COMES FROM TWO UNKOWN PERSON FROM THE REFERENCE POPULATION. 2- THE SUSPECT IS EXCLUDED AS A CONTRIBUTOR OF THE MIXED CELLS FOUND IN THE ITEM 3. THERE ARE THIRTHEEN(13) EXCLUSIONS. 3- THE VICTIM IS NOT EXCLUDED AS A CONTRIBUTOR OF THE BLOOD FOUND IN ITEM 4. IS 6.2 E+25 TIMES MORE PROBABLE THIS FINDING IF THE BLOOD COMES FROM THE VICTIM THAN IF IT COMES FROM ANOTHER PERSON FROM THE REFERENCE POPULATION.
EYF7AX	Extraction: Item 1 and Item 2 were extracted using chelex extraction method. Item 3 and Item 4 were extracted using QIAsymphony DNA Investigator Kit via QIAsymphony SP. Quantification: Item 1, Item 2, 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, Item 2, Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Item 1, Item 3 and Item 4 were amplified using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4 using GlobalFiler Kit and Yfiler Kit. Quality Control: Reagent Blank, Positive Control and Negative Control were carried out through amalysis and all gave intended results. NM: non-male.
FDTTZ7	Only Y-STR testing was performed. The female known reference sample (Item 2) was not processed. 3e and 3sp had possible D/O throughout in minor portions; therefore, no conclusions were made for the minor portion regarding Victim.
FND6AX	Analyst performs data analysis using GeneMapper but does not perform data interpretation or reporting.
FQGX94	Screening for the presence of male DNA using Plexor HY Real-Time PCR System was performed on Item 3 (Questioned blood and semen stain from suspect's bed sheet (green)) and Item 4 (Questioned blood stain from victim's underwear (yellow)). Male DNA was detected on Item 3 and Item 4.
FW7FKT	NR = No Results. Data reported out in this test is from analysis using GeneMapper ID-X. STRmix analysis was conducted on this test.
GH7WM3	Male screening was performed on samples 3 and 4 using the Plexor HY System. Male DNA was detected on Item 3. Male DNA was detected on Item 4. Spermatozoa were detected by microscopic examination of a slide prepared from item 3.
HCANGY	Screening for the presence of male DNA using the Plexor HY Real-Time PCR System was performed on Item 3: Questioned blood and semen stain from suspect's bed sheet (green) and Item 4: Questioned blood stain from victim's underwear (yellow). Male DNA was detected on Item 3: Questioned blood and semen stain from suspect's bed sheet (green). Male DNA was detected on Item 4: Questioned blood stain from victim's underwear (yellow). Spermatozoa were observed in the differential slide of item 3
JEG8FU	NR = No result. The E. cell fraction of Item 3 was not forwarded to Y-STR analysis because it was a 1:1 mixture of 2 males according to our policies this sample would be INC because the mixture would not have a major/minor component.
JFMTNT	Extraction: -Item 1 and Item 2 were extracted using chelex method -Item 3 and item 4 was extracted using Qiasymphony DNA Investigator Kit via QIAsymphony SP. Quantitation: -Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio Quantification Kit via QS5 system. Amplification: -Item 1, Item 2, Item 3 and Item 4 were amplified using GlobalFiler on 9700 GeneAmp PCR system. -Item 1, Item 3 and Item 4 were amplified using AMPFLSTR Y-Filer Kit on 9700 GeneAmp PCR System. Electrophoresis: -All electrophoresis were carried out using Genetic Analyzer 3500xL Quality Control: -Reagent blank, Positive Control and Negative Control carried out throughout the analysis all gave intended result. NM : non-male profile.
JNNYTV	NR = No Results; Y-Screen Results: Item 3 Positive, item 4 Positive

TABLE 5

WebCode	Additional Comments
JVJ4CY	Only Y-STR testing was performed and the female known reference was not processed.
KGBPN7	NR=no results. STRmix analysis was conducted on this test. Data reported out in this test is from analysis using GeneMapper ID-X.
KWU2PF	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
L4QFRT	NR = No Result. Y-Screen Assay Results: 1C: Positive for human male DNA, 1D: Positive for human male DNA.
LGXBZW	Sample 3: only one fraction (epithelial) was selected to move forward for Y-STR testing.
MB23VU	NR- no DNA result. [] - Lighter intensity allele.
MDT6YW	Screening for the presence of male DNA using Plexor HY Real-Time PCR System was performed on Item 3: Questioned blood and semen stain from suspect's bed sheet (green) and Item 4: Questioned blood stain from victim's underwear (yellow). Male DNA was detected on Item 3. Male DNA was detected on Item 4.
MXXKJU	Screening for the presence of male DNA using the Plexor HY real time PCR system was performed on Item 3: Questioned blood and semen stain from suspect's bed sheet (green) and Item 4: Questioned blood stain from victim's underwear (yellow). Male DNA was detected on Item 3 and Item 4. Sperm cells were detected on a slide prepared from item 7.3.1 sperm cell fraction.
PNJEHM	Extraction: Item 1 and Item 2 extracted using Chelex method. Item 3 and Item 4 extracted using DNA Investigator Kit via QIAsymphony SP. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio DNA Quantification Kit on RT-PCR QuantStudio 5 System. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using GlobalFiler kit on 9700 GeneAmp PCR System. Y-STR amplification was carried out on Item 1, Item 3 and Item 4 using AmFlSTR Y-Filer Kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis of GlobalFiler for Item 1, Item 2, Item 3 and Item 4 and Y-Filer for Item 1, Item 3 and Item 4 were carried out on Genetic Analyzer 3500xL. Quality Control: Reagent blank, positive control and negative control were incorporated throughout the analysis and all gave the intended results. NM: non-male profile.
PQ9UWP	NR-No results. Item 2 not analyzed for Y-STRs. Items 3 & 4 processes with the Y-screen Assay (QF Trio): Human male DNA was detected on item 3 and item 4.
PV3UD7	Interpretation and STRmix results: Item 3 SF: Single source DNA profile. Victim excluded, Suspect excluded. Item 3 EF: Mixed DNA profile- two contributors. Victim not excluded (LR >100 billion), Suspect excluded. Item 4: Single source DNA profile. Victim not excluded (LR >100 billion), Suspect excluded.
R4UTXC	Item 3 was not tested as it does not meet the testing criteria for missing persons protocols. The Minifiler results were concordant with the Globlafiler results. The ArgusX results for Amel and D21S11 were concordant with Globlafiler.
R7U7DN	Spermatozoa were detected on the microscope slide prepared from item 3 (Sperm cell fraction).
R89Q7Y	STRmix analysis was performed on this test
R9K8GR	Only YSTR testing was performed and the female known reference was not processed.
RKCY2V	Only YSTR testing performed Female known reference standard not processed

TABLE 5

WebCode	Additional Comments
RTPZ8W	STRmix analysis was conducted on this test.
T2TJYQ	Screening for the presence of male DNA using the Plexor HY real time PCR system was performed on Item 3: Questioned blood and semen stain from suspect's bed sheet (green) and Item 4: Questioned blood stain from victim's underwear (yellow). Male DNA was detected on Item 3. Male DNA was detected on Item 4.
TBHD7G	STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X. NR= No Results
THKFG9	Stutter peaks left in for STRmix analysis
TPKJLL	Analyst stops after GeneMapper and does not perform any data interpretation.
TTJZXF	NR=No Results. STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X.
TWHCUF	-"NR" is defined as "No Results". - The data reported out in this test is from analysis using GeneMapper ID-X. - STRmix analysis was conducted on this test.
TWPC3W	STRmix analysis was conducted on this test.
UCUACL	-The STR DNA profile for item one is the victim (male). -The STR DNA profile for item two is the suspect (female). - Item 3 get positive results for human blood kit and semen fluid indicator test. - After performing a differential extraction for item 3, the STR DNA profile for the semen was a male not the victim (unknown), and the DNA profile for the supernatant is mix for both the victim and the unknown male (same male on semen). - Item 4 get positive results for human blood kit, and the STR DNA profile was for the victim.
UJAYZL	NR= No Results. 1C and 1D were Y-Screen positive. 1A and 1B not analyzed using the Y-Screen Assay.
V4V2AR	Only Y-STR testing was performed. Female known reference was not processed.
VAJUAX	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
VVZ4JH	1. Chelex method was performed for known blood samples. 2. Automated (QIAsymphony -magnetic particle technology-) extraction was performed for questioned samples. 3. For the sperm fraction (3sp) for differential extraction, the genetic profile obtained was a Forensic Unknow.
W3TV4G	Scientist is authorized through data analysis, does not compare/report DNA results.
W6KUHF	Extraction: -Item 1 and Item 2 were extracted using chelex method. -Item 3 and Item 4 was extracted using Qiasymphony DNA Investigator Kit via QIAsymphony SP. Quantitation: -Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio Quantification Kit via QS5 system. Amplification: -Item 1, Item 2, Item 3 and Item 4 were amplified using GlobalFiler on 9700 GeneAmp PCR system. -Item 1, Item 3 and Item 4 were amplified using AMPFLSTR Y-Filer Kit on 9700 GeneAmp PCR System. Electrophoresis: -All electrophoresis were carried out using Genetic Analyzer 3500xL Quality Control: -Reagent blank, Positive Control and Negative Control carried out throughout the analysis all gave intended results. -NM no male profile.
WEV8L6	Assigned scientist qualified on processing Hamilton plates through CE, no differential extractions and no data analysis for samples. Item 4 profiled only, and data analyzed and entered by a second qualified scientist to ensure correct profile was obtained.

TABLE 5

WebCode	Additional Comments
WTCXQY	Sperm fraction of Item 3 - both suspect and victim excluded. Epithelial fraction of Item 3 - victim cannot be excluded. Suspect excluded. Item 4 - victim cannot be excluded. Suspect excluded.
WUNM4J	Screening for the presence of male DNA using Plexor HY real time PCR was performed on Item 3: Questioned blood and semen stain from the suspect's bed sheet (green) and Item 4: Questioned blood stain from the victim's underwear (yellow). Male DNA was detected on item 3. Male DNA was detected on item 4. Spermatozoa were detected on a slide prepared from item 3.
WYVD7P	Only Y-STR testing was performed. The female known reference was not processed.
XXLDVG	NR = no result. Y-Screen Assay performed on items 3 and 4 with a positive result for both items.
YAUL9T	STRmix analysis was conducted on this test.
YGQPQB	NR=No Results. STRmix analysis was conducted on Item 3e. Data for all reported items was generated using GeneMapper ID-X.
YMVLDG	Screening for the presence of male DNA using Plexor HY Real-Time PCR System was performed on Item #3: Questioned blood and semen stain from suspect's bed sheet (green) and Item #4: Questioned blood stain from victim's underwear (yellow). Male DNA was detected on Item # 3. Male DNA was detected on Item #4.
YP2QBB	NR = No Result. STRmix analysis conducted on this test. Reported data analyzed with GeneMapper ID-X.
Z6EE3K	Screening for the presence of male DNA using Plexor HY Real-Time PCR System was performed on the following items: Item 3- Questioned blood and semen stain from suspect's bed sheet (green) Item 4- Questioned blood stain from victim's underwear (yellow) Male DNA was detected on Item 3. Male DNA was detected on Item 4.
ZR8KTG	NR = no results. Y-screen positive for item 3 item 4.

-End of Report-
(Appendix may follow)

Test No. 24-5804: DNA-Semen

DATA MUST BE SUBMITTED BY **Sept. 03, 2024, 11:59 p.m. EDT** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A   WebCode: HNUPM9

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

Scenario:

Police are investigating a sexual assault involving a male victim and female suspect. The victim was at the suspect's house for a date. The victim reports that he had a few drinks, but doesn't remember anything until he awoke in the suspect's bed. Police are submitting to your laboratory a stain from suspect's bed sheet (Item 3) and a stain from the underwear the victim was wearing (Item 4). Screening tests have been performed on both samples with the following results: Item 3 (suspect's bed sheet) is positive for blood and semen, and Item 4 (victim's underwear) is positive for blood. Also collected were known blood samples from the male victim (Item 1) and the female suspect (Item 2).

Items Submitted (Sample Pack S4):

Item 1: Known blood from the male victim
Item 2: Known blood from the female suspect
Item 3: Questioned blood and semen stain from suspect's bed sheet (green)
Item 4: Questioned blood stain from victim's underwear (yellow)

Part I: DNA Results for Known Item 1

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

<u>STR Amplification Kit(s) Used:</u> Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

☐ Identifiler® ☐ GlobalFiler™ ☐ Investigator® 24plex

☐ PowerPlex® Other

Report the Probabilistic Genotyping Software Used (if applicable):

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

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

<u>YSTR Amplification Kit(s) Used:</u> Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

☐ YFiler™ ☐ PowerPlex® Y Other

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

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

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

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

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						

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 ANAB and/or A2LA. Please select one of the following statements to ensure your data is handled appropriately.

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

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

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

ANAB Certificate No. [   ]

A2LA Certificate No. [   ]

Step 2: Complete the Laboratory Identifying Information in its entirety

Authorized Contact Person and Title

[   ]

Laboratory Name

[   ]

Location (City/State)

[   ]