Collaborative Testing Services, Inc

FORENSIC TESTING PROGRAM

DNA-Semen Test No. 22-5804
Summary Report

Each participant received a sample pack consisting of two known bloodstains and two questioned stains which they were requested to analyze using their existing protocols. Data were returned from 223 participants and are compiled into the following tables:

Manufacturer's Information

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

SAMPLE PREPARATION: The stains in Items 1, 2, and 4 were prepared from human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. The stain in Item 3 was a mixture prepared from human whole blood and semen. The semen sample was first thawed and mixed 1:1 with TAE buffer, then mixed 1:1 with blood. Item 1 (50 μl) and Item 4 (50 μl) were created using blood from the same female donor. Item 2 (50 μl) was created using blood collected from a male donor. Item 3 (50 μl) was created using a mixture of blood from the female donor used in Item 1 and semen from a male donor whose 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 06, 2022 following completion of verification stage.

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

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

Manufacturer's Information, continued

Amelogenin and STR Results					
Results compiled from predistribution laboratories and a consensus of at least 10 participants.					
Item	**D1S1656**	**D2S1338**	**D2S441**	**D3S1358**	**D5S818**	**D6S1043**
	D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
	D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
	FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
	vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
1	15,17.3	16,20	11,11	14,18	10,12	*
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18	NM	NM	NM	NM	
2	12,16	19,24	10,11.3	16,16	11,13	*
	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22	8,10	12,12	25.2,29.2	6,7	8,9
	16,16	9	22	17	2	
3-Blood	15,17.3	16,20	11,11	14,18	10,12	*
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18	NM	NM	NM	NM	
3-Semen	11,17.3	17,21	11,11	15,16	11,12	*
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24	11,12	7,10	27.2,33.2	6,9	8,11
	17,17	11	19	16	2	
4	15,17.3	16,20	11,11	14,18	10,12	*
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18	NM	NM	NM	NM	

YSTR Results									
Results compiled from predistribution laboratories and a consensus of at least 10 participants.									
Item	**DYF387S1**	**DYS19**	**DYS385**	**DYS389-I**	**DYS389-II**	**DYS390**	**DYS391**	**DYS392**	**DYS393**
	DYS437	**DYS438**	**DYS439**	**DYS448**	**DYS449**	**DYS456**	**DYS458**	**DYS460**	**DYS481**
	DYS518	**DYS533**	**DYS549**	**DYS570**	**DYS576**	**DYS627**	**DYS635**	**DYS643**	**Y GATA H4**

Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
2	35,38	13	17,19	13	30	24	9	11	13
	14	10	12	20	32	15	16	9	22
	40	12	12	22	17	22	23	13	12
3-Semen	35,35	14	11,13	15	31	23	11	14	14
	14	10	10	19	29	14	18	11	21
	38	11	12	19	16	21	22	11	12

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

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

Summary Comments

The 22-5804 DNA-Semen test is part of the DNA Sample Specific Series, where participants are advised of the body fluid(s) that made up the questioned stains. The test is designed to allow participants to assess their proficiency in the analysis of dried stains. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Item 1 and Item 4 were created using blood from the same female donor. Item 2 was created using blood collected from a male donor. Item 3 was created using a mixture of blood from the female donor used in Item 1 and semen from a male donor whose standard was not provided. (See Manufacturer's Information for preparation details)

Of the 223 participants that returned results, 214 reported DNA interpretations. Two participants did not respond, two stated that the samples were analyzed for database purposes only, and five selected the "No Interpretations" option for all Interpretation questions.

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

For the Item 4 stain, all responding participants included the victim (Item 1) and excluded the suspect (Item 2) as possible contributors.

A total of 51 participants reported the use of Probabilistic Genotyping (PG) software on either solely the questioned items or all four items.

STR Amplification Kit(s) & Results

TABLE 1

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

Item 1 - STR Results

WebCode / Item						
27AE2D	PowerPlex® Fusion					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18	NR				
27AFMB	GlobalFiler™ Express					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	No Results			No Results	
2BVMRV	PowerPlex® Fusion					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					
2DRGQ8	GlobalFiler™					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
2G6MHV	PowerPlex® Fusion 6C					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18					
2L29BJ	PowerPlex® Fusion 5C					
	15,17.3	16,20	11,11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

TABLE 1

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

Item 1 - STR Results

2L6B7A — PowerPlex® Fusion 5c

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

2LG6NV — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

39N3H9 — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

3C9H4G — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

3MBHZA — PowerPlex® 21, PowerPlex®-ESX-17

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11	14,18	10,12	12,13
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18					

43YFEA — PowerPlex® CS7, Verifiler Plus, NGM SElect

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11	14,18	10,12	12,13
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18					

4DW8TZ — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

TABLE 1

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

Item 1 - STR Results

4ZDZW8   PowerPlex® Fusion

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

623PUT   GlobalFiler™

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

648GM8   PowerPlex® 5C

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

68CDLW   GlobalFiler™

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

6BAWPG   PowerPlex® Fusion 5C

15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

6GFXZ4   Identifiler® Plus

	16,20		14,18	10,12	
9,10	12,14			8,12	12,13
16,17	14,15	28,32.2		X,X	10,13
23,24				8,9.3	8,11
16,18					

6KWX46   GlobalFiler™

15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NR			NR	

TABLE 1

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

Item 1 - STR Results

6PNRRB — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11,11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18	ND	ND	ND		

6RXAZ2 — Investigator® 24plex GO!

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11,11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

6U26J6 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11,11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	NR			NR	

722GJ9 — PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18	NR				

788D39 — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18	NR				

7B8WAT — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

7HM32D — PowerPlex® 16 HS

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
				14,18	10,12	
1	9,10	12,14			8,12	12,13
	16,17		28,32.2		X,X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

TABLE 1

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

Item 1 - STR Results

7PLU72   Investigator® 24plex GO!

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

7XW64R   PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18	No Results				

8JR9KP   PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18	NR				

8MXAMV   PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

8UH9GA   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

8YUJN7   NGM SElect

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11,11	14,18		
		12,14	13,14	20,23		12,13
	16,17	14,15	28,32.2	16,16	X,X	
	23,24			30.2,31.2	8,9.3	
	16,18					

94VEKB   PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18					

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 1 - STR Results

94X4N9 — PowerPlex® Fusion 5C (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

9CEKJ4 — Identifiler® Plus (Item 1)

	16,20		14,18	10,12	
9,10	12,14			8,12	12,13
16,17	14,15	28,32.2		X,X	10,13
23,24				8,9.3	8,11
16,18					

9V3G3V — GlobalFiler™ (Item 1)

15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

9WXZ4W — PowerPlex® Fusion 5C (Item 1)

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

A3JYQA — PowerPlex® Fusion 6C (STRmix) (Item 1)

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

A7Y48W — GlobalFiler™ (Item 1)

15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

ADYU4N — PowerPlex® Fusion 6C (Item 1)

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

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 1 - STR Results

AHDYQ3 — GlobalFiler™ (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

AJ6PMN — PowerPlex® Fusion 6C (Item 1)

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

AKZG3W — GlobalFiler™ (Item 1)

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

ARL22P — GlobalFiler™ Express (Item 1)

15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NR			NR	

AU6Q8Z — PowerPlex® Fusion (Item 1)

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

AWWK9B — GlobalFiler™ Direct (Item 1)

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

BAXAEV — PowerPlex® Fusion 6C (Item 1)

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

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 1 - STR Results

BBUN2M — PowerPlex® Fusion 6C — Item 1

D1/D7/D18/FGA/vWA	D2S1338/D8/D19/PentaD/DYS391	D2S441/D10/D21/PentaE/DYS570	D3/D12/D22/SE33/DYS576	D5/D13/Amel/TH01/YIndel	D6/D16/CSF/TPOX
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X,X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

BC43F2 — PowerPlex® Fusion — Item 1

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

BDXJJ6 — GlobalFiler™ — Item 1

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

BGYUQJ — GlobalFiler™ Direct — Item 1

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

BH86K3 — PowerPlex® Fusion 6C — Item 1

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

BK2T3X — PowerPlex® 21 (STRmix) — Item 1

15,17.3	16,20		14,18	10,12	12,13
9,10	12,14		20,23	8,12	12,13
16,17	14,15	28,32.2		X,X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

BMNAEQ — GlobalFiler™ — Item 1

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

TABLE 1

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

Item 1 - STR Results

BQWLM4 GlobalFiler™ (GeneMapper ID-X v1.5)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11,11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

BRGCHQ GlobalFiler™ Direct

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

BRV39L GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

C4NCHV Investigator® 24plex GO!

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11,11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

C6HZ2Q PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11,11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

C9WQXJ PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

CFJXVY PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

TABLE 1

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

Item 1 - STR Results

CNRXBZ PowerPlex® Fusion, ESX17, VERIFILER Plus

15,17.3	16,20	11,11	14,18	10,12	12,13
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18	NA			NA	

(Item 1)

CXHHNZ GlobalFiler™

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

(Item 1)

D4V3UG PowerPlex® Fusion

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18	NR				

(Item 1)

D8JV8R GlobalFiler™

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

(Item 1)

DTFA4L Investigator® 24plex QS

15,17.3	16,20	11,11	14,18	10,12	N/A
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	N/A	N/A	30.2,31.2	8,9.3	8,11
16,18	N/A	N/A	N/A	N/A	

(Item 1)

DTKDC8 PowerPlex® Fusion 5C

15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

(Item 1)

E2R8PR GlobalFiler™

15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	--			--	

TABLE 1

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

Item 1 - STR Results

E4DGRK — GlobalFiler™ Express

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NR			NR	

E688XZ — PowerPlex® Fusion 6C

15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

EEZFMW — GlobalFiler™

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NM			NM	

EQ74GT — PowerPlex® Fusion 5C

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

ETFGG3 — PowerPlex® CS7, Verifiler, Investigator HDplex, SureID 27comp

15,17.3	16,20	11,11	14,18	10,12	12,13
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

EUBYH4 — GlobalFiler™

15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

EVHB4J — PowerPlex® Fusion

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

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 1 - STR Results

EZJU8Q — PowerPlex® Fusion — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

F3JT9P — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

F6MNRT — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

F72K8Q — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

F8X49R — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	--			--	

FEUGRK — Investigator® 24plex GO — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	N/A
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	N/A	N/A	30.2,31.2	8,9.3	8,11
16,18	N/A	N/A	N/A	N/A	

FKFCTN — PowerPlex® Fusion — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18	NR				

TABLE 1

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

Item 1 - STR Results

FNHNTH — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

FWQHLP — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

FYGKQD — GlobalFiler™ Direct

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

G2LZTW — PowerPlex® Fusion

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18	NR				

GDDNNW — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11,11	14,18	10,12	-
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	-	-	30.2,31.2	8,9.3	8,11
	16,18	-	-	-	-	

GYT8FY — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

H7UEHR — PowerPlex® Fusion 5C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

TABLE 1

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

Item 1 - STR Results

HENTVT — Investigator® 24plex GO!

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
1	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

HJVF9V — 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
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18	NR				

HT6HGU — 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
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

HX3A3T — 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
1	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	NR			NR	

J3NXJF — 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
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

J9ATJJ — 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	15,17.3	16,20	11,11	14,18	10,12	N/A
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	N/A	N/A	30.2,31.2	8,9.3	8,11
	16,18	N/A	N/A	N/A	N/A	

JCHMXY — 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
1	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

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 1 - STR Results

JG92KK — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

Item: 1

JKQL3U — PowerPlex® 21, Fusion, ESX17

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	12,13
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

Item: 1

JWMXNZ — GlobalFiler™ Direct

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

Item: 1

K4FV4V — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

Item: 1

K6VPTP — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NR			NR	

Item: 1

K7MD3Q — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	-
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X,X	10,13
23,24	-	-	30.2,31.2	8,9.3	8,11
16,18	NM	-	-	NM	

Item: 1

KJBDLC — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

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

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
KLGACU GlobalFiler™						
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
KLXXKV GlobalFiler™ Express						
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	NR			NR	
KQTM8U PowerPlex® Fusion						
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18	NR				
KT262J PowerPlex® Fusion 6C						
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18					
KWG3HZ GlobalFiler™						
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
KYLTMU GlobalFiler™						
	15,17.3	16,20	11,11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
L8C69U GlobalFiler™ Express						
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	No Results			No Results	

TABLE 1

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

Item 1 - STR Results

LFRM8V — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

LLT2NQ — GlobalFiler™ Express — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NR			NR	

LQ39WF — Investigator® 24plex QS — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	N/A
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	N/A	N/A	30.2,31.2	8,9.3	8,11
16,18	N/A	N/A	N/A	N/A	

LRLZ8R — Identifiler® Plus — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,20		14,18	10,12	
9,10	12,14			8,12	12,13
16,17	14,15	28,32.2		X,X	10,13
23,24				8,9.3	8,11
16,18					

LTDQXJ — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

LU8EFE — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

LVKC3R — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NM			NM	

TABLE 1

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

Item 1 - STR Results

LWE6XB — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

Item: 1

LWUFHA — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

Item: 1

LXQYFW — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

Item: 1

M62MPN — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

Item: 1

MB8LA8 — GlobalFiler™ Direct

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

Item: 1

ME9P2U — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

Item: 1

MEQ9VM — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NR			NR	

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

MEVZXG — PowerPlex® Fusion — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

MJK9AH — PowerPlex® Fusion 6C — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

MKZZBR — GlobalFiler™ — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

MMJJ6H — PowerPlex® Fusion 6C — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

MND8ND — GlobalFiler™ Express — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	No Result			No Result	

MP8XUR — PowerPlex® Fusion 6C — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

MPQALQ — PowerPlex® Fusion 6C — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18	ND	ND	ND		

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

N7VQUJ Investigator® 24plex (GO!)

Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

N9UX7E Investigator® 24plex GO!

Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	N/A
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	29,32.2	16,16	X,X	10,13
23,24	N/A	N/A	30.2,31.2	8,9.3	8,11
16,18	N/A	N/A	N/A	N/A	

NGCFTN GlobalFiler™ Express (STRmix)

Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	No results			No results	

NJWWVM PowerPlex® Fusion

Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

NT67ML GlobalFiler™

Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

P83Z9E PowerPlex® Fusion 5C

Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

PAAMYK GlobalFiler™

Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	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 1 - STR Results

PDQHNB — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

PFTLED — PowerPlex® Fusion — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

PKADKT — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	-			-	

PWJTMR — GlobalFiler™ Express — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	No Results			No Results	

Q2CPYG — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	--			--	

Q3677Q — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

Q6BQR7 — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

TABLE 1

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

Item 1 - STR Results

Q8HJTC — PowerPlex® Fusion — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

(Row markers: D7S820…D16S539; D18S51…CSF1PO; FGA…TPOX; vWA…Y Indel)

Q9DY8U — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

QME4PM — GlobalFiler™ (TrueAllele) — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

QRNG8L — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NM			NM	

QX9GKD — PowerPlex® Fusion 5C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

QY6VAQ — Investigator® 24plex (Genemapper) — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

R2PY32 — GlobalFiler™ Direct — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

TABLE 1

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

Item 1 - STR Results

R4UUY7	PowerPlex® Fusion 6C					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18					
R8DJ7G	GlobalFiler™					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
RBBZHB	PowerPlex® Fusion					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					
RC6N27	GlobalFiler™					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
RF6WAM	Identifiler® Plus					
		16,20		14,18	10,12	
1	9,10	12,14			8,12	12,13
	16,17	14,15	28,32.2		X,X	10,13
	23,24				8,9.3	8,11
	16,18					
RHDELK	GlobalFiler™					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	NM			NM	
RJRGC7	GlobalFiler™					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

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 1 - STR Results

RKGCR8 — GlobalFiler™ Express (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NR			NR	

RQAEV7 — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

RWVWZM — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

T66VL6 — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

TC7B77 — GlobalFiler™ Express (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NR			NR	

TD2QKN — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

TXNMVM — GlobalFiler™ Express (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NR			NR	

TABLE 1

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

Item 1 - STR Results

U9GTEP	GlobalFiler™ Direct					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

UFZQW6	GlobalFiler™					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

UP92LJ	GlobalFiler™ Express					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	NR			NR	

UV9D7Z	GlobalFiler™					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

UVWFYA	PowerPlex® Fusion					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

UYVRUA	PowerPlex® Fusion 5C					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

V8BNQK	PowerPlex® Fusion 6C					
	15,17.3	16,20	11,11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18					

TABLE 1

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

Item 1 - STR Results

VD9MMB — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

VGQCZF — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

VH89TF — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,[9.3]	8,11
	16,18	NR			NR	

VJFD9P — PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

VNM4EA — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

VR8WKC — Investigator® 24plex GO!

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

VXCXK7 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

TABLE 1

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

Item 1 - STR Results

W2FNRL GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11,11	14,18	10,12	-
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	-	-	30.2,31.2	8,9.3	8,11
	16,18	-	-	-	-	

W37LNC GlobalFiler™

	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

W99T6Z GlobalFiler™

	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

WAKV7L GlobalFiler™ (STRMIX)

	15,17.3	16,20	11,11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

WEXBKW GlobalFiler™ Direct

	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

WP2VY7 Investigator® 24plex

	15,17.3	16,20	11,11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

WYH8Y3 GlobalFiler™

	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

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 1 - STR Results

X7FP3Z — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

(Item 1)

X7L92G — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

(Item 1)

XDZMXE — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NM			NM	

(Item 1)

XG2TAY — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

(Item 1)

XHX7XR — Identifiler®

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,20		14,18	10,12	
9,10	12,14			8,12	12,13
16,17	14,15	28,32.2		X,X	10,13
23,24				8,9.3	8,11
16,18					

(Item 1)

XJ2V6Z — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

(Item 1)

XJ9LB7 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

(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

WebCode / Item						
XK3AU2	GlobalFiler™					
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
XLVPX6	PowerPlex® 5C					
1	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					
XN688E	GlobalFiler™ Direct					
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
XQRNJ9	GlobalFiler™					
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
XTDVXH	GlobalFiler™					
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
Y4R89Y	GlobalFiler™					
1	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
Y8THHZ	GlobalFiler™ Express					
1	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	NR			NR	

TABLE 1

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

Item 1 - STR Results

YKWENZ	GlobalFiler™					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
YMKTCB	GlobalFiler™					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
YZACJ8	Investigator® 24plex GO					
	15,17.3	16,20	11,11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
ZEQ369	PowerPlex® Fusion					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					
ZGE424	PowerPlex® Fusion 5C					
	15,17.3	16,20	11,11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					
ZGUXNB	PowerPlex® Fusion 5C					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					
ZJ3HPD	PowerPlex® Fusion					
	15,17.3	16,20	11	14,18	10,12	
1	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18	NR				

TABLE 1

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

Item 1 - STR Results

ZMFFXZ — GlobalFiler™ Express (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NR			NR	

ZNWCPZ — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

ZW7CAF — NGM SElect (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18		
	12,14	13,14	20,23		12,13
16,17	14,15	28,32.2	16	X	
23,24			30.2,31.2	8,9.3	
16,18					

ZZ6M7F — Identifiler® Plus (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,20		14,18	10,12	
9,10	12,14			8,12	12,13
16,17	14,15	28,32.2		X,X	10,13
23,24				8,9.3	8,11
16,18					

TABLE 1

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

Item 2 - STR Results

27AE2D — PowerPlex® Fusion

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

27AFMB — GlobalFiler™ Express (Item 2)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

2BVMRV — PowerPlex® Fusion (Item 2)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

2DRGQ8 — GlobalFiler™ (Item 2)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

2G6MHV — PowerPlex® Fusion 6C (Item 2)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12	25.2,29.2	6,7	8,9
16	9	22	17		

2L29BJ — 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
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22	8,10	12,12		6,7	8,9
16,16	9				

2L6B7A — 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
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

TABLE 1

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

2LG6NV — GlobalFiler™ — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

39N3H9 — PowerPlex® Fusion — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

3C9H4G — GlobalFiler™ — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

3MBHZA — PowerPlex® 21, PowerPlex®-ESX-17 — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	12,18
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12	25.2,29.2	6,7	8,9
16					

43YFEA — PowerPlex® CS7, Verifiler Plus, NGM SElect — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	12,18
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12	25.2,29.2	6,7	8,9
16					

4DW8TZ — PowerPlex® Fusion — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

4ZDZW8 — PowerPlex® Fusion — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

TABLE 1

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

623PUT — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

648GM8 — PowerPlex® 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

68CDLW — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

6BAWPG — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22	8,10	12,12		6,7	8,9
16,16	9				

6GFXZ4 — Identifiler® Plus

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	19,24		16,16	11,13	
11,12	12,12			12,13	12,13
13,18	14,15.2	29,32.2		X,Y	9,10
19,22				6,7	8,9
16,16					

6KWX46 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

6PNRRB — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22	8,10	12,12	25.2,29.2	6,7	8,9
16,16	9	22	17		

TABLE 1

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

Item 2 - STR Results

6RXAZ2 — Investigator® 24plex GO! (Item 2)

D1S1656/D7S820/D18S51/FGA/vWA	D2S1338/D8S1179/D19S433/Penta D/DYS391	D2S441/D10S1248/D21S11/Penta E/DYS570	D3S1358/D12S391/D22S1045/SE33/DYS576	D5S818/D13S317/Amelogenin/TH01/Y Indel	D6S1043/D16S539/CSF1PO/TPOX
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9				

6U26J6 — GlobalFiler™ (Item 2)

D1S1656/D7S820/D18S51/FGA/vWA	D2S1338/D8S1179/D19S433/Penta D/DYS391	D2S441/D10S1248/D21S11/Penta E/DYS570	D3S1358/D12S391/D22S1045/SE33/DYS576	D5S818/D13S317/Amelogenin/TH01/Y Indel	D6S1043/D16S539/CSF1PO/TPOX
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

722GJ9 — 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
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

788D39 — PowerPlex® Fusion (Item 2)

D1S1656/D7S820/D18S51/FGA/vWA	D2S1338/D8S1179/D19S433/Penta D/DYS391	D2S441/D10S1248/D21S11/Penta E/DYS570	D3S1358/D12S391/D22S1045/SE33/DYS576	D5S818/D13S317/Amelogenin/TH01/Y Indel	D6S1043/D16S539/CSF1PO/TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

7B8WAT — GlobalFiler™ (Item 2)

D1S1656/D7S820/D18S51/FGA/vWA	D2S1338/D8S1179/D19S433/Penta D/DYS391	D2S441/D10S1248/D21S11/Penta E/DYS570	D3S1358/D12S391/D22S1045/SE33/DYS576	D5S818/D13S317/Amelogenin/TH01/Y Indel	D6S1043/D16S539/CSF1PO/TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

7HM32D — PowerPlex® 16 HS (Item 2)

D1S1656/D7S820/D18S51/FGA/vWA	D2S1338/D8S1179/D19S433/Penta D/DYS391	D2S441/D10S1248/D21S11/Penta E/DYS570	D3S1358/D12S391/D22S1045/SE33/DYS576	D5S818/D13S317/Amelogenin/TH01/Y Indel	D6S1043/D16S539/CSF1PO/TPOX
			16,16	11,13	
11,12	12,12			12,13	12,13
13,18		29,32.2		X,Y	9,10
19,22	8,10	12,12		6,7	8,9
16,16					

7PLU72 — Investigator® 24plex GO! (Item 2)

D1S1656/D7S820/D18S51/FGA/vWA	D2S1338/D8S1179/D19S433/Penta D/DYS391	D2S441/D10S1248/D21S11/Penta E/DYS570	D3S1358/D12S391/D22S1045/SE33/DYS576	D5S818/D13S317/Amelogenin/TH01/Y Indel	D6S1043/D16S539/CSF1PO/TPOX
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9				

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

7XW64R PowerPlex® Fusion 5C

12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

8JR9KP PowerPlex® Fusion

12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

8MXAMV PowerPlex® Fusion

12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

8UH9GA GlobalFiler™

12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

8YUJN7 NGM SElect

12,16	19,24	10,11.3	16,16		
	12,12	17,18	15,21		12,13
13,18	14,15.2	29,32.2	15,15	X,Y	
19,22			25.2,29.2	6,7	
16,16					

94VEKB PowerPlex® Fusion 6C

12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12	25.2,29.2	6,7	8,9
16	9	22	17		

94X4N9 PowerPlex® Fusion 5C

12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22	8,10	12,12		6,7	8,9
16,16	9				

TABLE 1

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

9CEKJ4 — Identifiler® Plus

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	19,24		16	11,13	
11,12	12			12,13	12,13
13,18	14,15.2	29,32.2		X,Y	9,10
19,22				6,7	8,9
16					

Item: 2

9V3G3V — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

Item: 2

9WXZ4W — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

Item: 2

A3JYQA — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12	25.2,29.2	6,7	8,9
16	9	22	17		

Item: 2

A7Y48W — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

Item: 2

ADYU4N — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12	25.2,29.2	6,7	8,9
16	9	22	17		

Item: 2

AHDYQ3 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

Item: 2

TABLE 1

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

Item 2 - STR Results

AJ6PMN — PowerPlex® Fusion 6C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12	25.2,29.2	6,7	8,9
16	9	22	17		

AKZG3W — GlobalFiler™ (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

ARL22P — GlobalFiler™ Express (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

AU6Q8Z — PowerPlex® Fusion (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

AWWK9B — GlobalFiler™ Direct (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

BAXAEV — PowerPlex® Fusion 6C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12	25.2,29.2	6,7	8,9
16	9	22	17		

BBUN2M — PowerPlex® Fusion 6C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12	25.2,29.2	6,7	8,9
16	9	22	17		

TABLE 1

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

Item 2 - STR Results

BC43F2 — PowerPlex® Fusion — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

BDXJJ6 — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

BGYUQJ — GlobalFiler™ Direct — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

BH86K3 — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12	25.2,29.2	6,7	8,9
16	9	22	17		

BK2T3X — PowerPlex® 21 (STRmix) — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24		16,16	11,13	12,18
11,12	12,12		15,21	12,13	12,13
13,18	14,15.2	29,32.2		X,Y	9,10
19,22	8,10	12,12		6,7	8,9
16,16					

BMNAEQ — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

BQWLM4 — GlobalFiler™ (GeneMapper ID-X v1.5) — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

TABLE 1

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

Item 2 - STR Results

BRGCHQ — GlobalFiler™ Direct — Item 2

D1S1656/D7S820/D18S51/FGA/vWA	D2S1338/D8S1179/D19S433/Penta D/DYS391	D2S441/D10S1248/D21S11/Penta E/DYS570	D3S1358/D12S391/D22S1045/SE33/DYS576	D5S818/D13S317/Amelogenin/TH01/Y Indel	D6S1043/D16S539/CSF1PO/TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

BRV39L — GlobalFiler™ — Item 2

D1S1656/D7S820/D18S51/FGA/vWA	D2S1338/D8S1179/D19S433/Penta D/DYS391	D2S441/D10S1248/D21S11/Penta E/DYS570	D3S1358/D12S391/D22S1045/SE33/DYS576	D5S818/D13S317/Amelogenin/TH01/Y Indel	D6S1043/D16S539/CSF1PO/TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

C4NCHV — Investigator® 24plex GO! — Item 2

D1S1656/D7S820/D18S51/FGA/vWA	D2S1338/D8S1179/D19S433/Penta D/DYS391	D2S441/D10S1248/D21S11/Penta E/DYS570	D3S1358/D12S391/D22S1045/SE33/DYS576	D5S818/D13S317/Amelogenin/TH01/Y Indel	D6S1043/D16S539/CSF1PO/TPOX
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9				

C6HZ2Q — 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
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22	8,10	12,12		6,7	8,9
16,16	9				

C9WQXJ — PowerPlex® Fusion — Item 2

D1S1656/D7S820/D18S51/FGA/vWA	D2S1338/D8S1179/D19S433/Penta D/DYS391	D2S441/D10S1248/D21S11/Penta E/DYS570	D3S1358/D12S391/D22S1045/SE33/DYS576	D5S818/D13S317/Amelogenin/TH01/Y Indel	D6S1043/D16S539/CSF1PO/TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

CFJXVY — PowerPlex® Fusion — Item 2

D1S1656/D7S820/D18S51/FGA/vWA	D2S1338/D8S1179/D19S433/Penta D/DYS391	D2S441/D10S1248/D21S11/Penta E/DYS570	D3S1358/D12S391/D22S1045/SE33/DYS576	D5S818/D13S317/Amelogenin/TH01/Y Indel	D6S1043/D16S539/CSF1PO/TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

CNRXBZ — PowerPlex® Fusion, ESX17, VERIFILER Plus — Item 2

D1S1656/D7S820/D18S51/FGA/vWA	D2S1338/D8S1179/D19S433/Penta D/DYS391	D2S441/D10S1248/D21S11/Penta E/DYS570	D3S1358/D12S391/D22S1045/SE33/DYS576	D5S818/D13S317/Amelogenin/TH01/Y Indel	D6S1043/D16S539/CSF1PO/TPOX
12,16	19,24	10,11.3	16,16	11,13	12,18
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22	8,10	12,12	25.2,29.2	6,7	8,9
16,16	9			2	

TABLE 1

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

Item 2 - STR Results

CXHHNZ GlobalFiler™ (Item 2)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

D4V3UG PowerPlex® Fusion (Item 2)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

D8JV8R GlobalFiler™ (Item 2)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

DTFA4L Investigator® 24plex QS (Item 2)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16,16	11,13	N/A
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22	N/A	N/A	25.2,29.2	6,7	8,9
16,16	9	N/A	N/A	N/A	

DTKDC8 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
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22	8,10	12,12		6,7	8,9
16,16	9				

E2R8PR GlobalFiler™ (Item 2)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

E4DGRK GlobalFiler™ Express (Item 2)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

TABLE 1

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

E688XZ — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22	8,10	12,12	25.2,29.2	6,7	8,9
16,16	9	22	17		

EEZFMW — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

EQ74GT — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

ETFGG3 — PowerPlex® CS7, Verifiler, Investigator HDplex, SureID 27comp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	12,18
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22	8,10	12	25.2,29.2	6,7	8,9
16,16				2	

EUBYH4 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

EVHB4J — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

EZJU8Q — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

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

F3JT9P — PowerPlex® Fusion 6C — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12	25.2,29.2	6,7	8,9
16	9	22	17		

F6MNRT — PowerPlex® Fusion 6C — Item 2

12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22	8,10	12,12	25.2,29.2	6,7	8,9
16,16	9	22	17		

F72K8Q — GlobalFiler™ — Item 2

12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

F8X49R — GlobalFiler™ — Item 2

12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

FEUGRK — Investigator® 24plex QS & GO!, Flex Plex 27 — Item 2

12,16	19,24	10,11.3	16,16	11,13	12,18
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22	N/A	INC	25.2,29.2	6,7	8,9
16,16	9	22	17	N/A	

FKFCTN — PowerPlex® Fusion — Item 2

12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

FNHNTH — GlobalFiler™ — Item 2

12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

TABLE 1

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

FWQHLP	GlobalFiler™					
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	
FYGKQD	GlobalFiler™ Direct					
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	
G2LZTW	PowerPlex® Fusion					
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22	8,10	12		6,7	8,9
	16	9				
GDDNNW	GlobalFiler™					
	12,16	19,24	10,11.3	16,16	11,13	-
2	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22	-	-	25.2,29.2	6,7	8,9
	16,16	9	-	-	2	
GYT8FY	GlobalFiler™					
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	
H7UEHR	PowerPlex® Fusion 5C					
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22	8,10	12		6,7	8,9
	16	9				
HENTVT	Investigator® 24plex GO!					
	12,16	19,24	10,11.3	16,16	11,13	
2	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16,16	9				

TABLE 1

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

HJVF9V — 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
2	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22	8,10	12		6,7	8,9
	16	9				

HT6HGU — PowerPlex® Fusion

Item						
2	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22	8,10	12		6,7	8,9
	16	9				

HX3A3T — GlobalFiler™

Item						
2	12,16	19,24	10,11.3	16,16	11,13	
	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16,16	9			2	

J3NXJF — PowerPlex® Fusion

Item						
2	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22	8,10	12		6,7	8,9
	16	9				

J9ATJJ — Investigator® 24plex QS

Item						
2	12,16	19,24	10,11.3	16,16	11,13	N/A
	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22	N/A	N/A	25.2,29.2	6,7	8,9
	16,16	9	N/A	N/A	N/A	

JCHMXY — PowerPlex®, GlobalFiler™

Item						
2	12,16	19,24	10,11.3	16,16	11,13	
	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16,16	9			2	

JG92KK — PowerPlex® Fusion 5C

Item						
2	12,16	19,24	10,11.3	16,16	11,13	
	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22	8,10	12,12		6,7	8,9
	16,16	9				

TABLE 1

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

JKQL3U — PowerPlex® 21, Fusion, ESX17 — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	12,18
D7S820 11,12	**D8S1179** 12	**D10S1248** 17,18	**D12S391** 15,21	**D13S317** 12,13	**D16S539** 12,13
D18S51 13,18	**D19S433** 14,15.2	**D21S11** 29,32.2	**D22S1045** 15	**Amelogenin** X,Y	**CSF1PO** 9,10
FGA 19,22	**Penta D** 8,10	**Penta E** 12	**SE33** 25.2,29.2	**TH01** 6,7	**TPOX** 8,9
vWA 16	**DYS391** 9	**DYS570**	**DYS576**	**Y Indel**	

JWMXNZ — GlobalFiler™ Direct — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
D7S820 11,12	**D8S1179** 12	**D10S1248** 17,18	**D12S391** 15,21	**D13S317** 12,13	**D16S539** 12,13
D18S51 13,18	**D19S433** 14,15.2	**D21S11** 29,32.2	**D22S1045** 15	**Amelogenin** X,Y	**CSF1PO** 9,10
FGA 19,22	**Penta D**	**Penta E**	**SE33** 25.2,29.2	**TH01** 6,7	**TPOX** 8,9
vWA 16	**DYS391** 9	**DYS570**	**DYS576**	**Y Indel** 2	

K4FV4V — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
D7S820 11,12	**D8S1179** 12	**D10S1248** 17,18	**D12S391** 15,21	**D13S317** 12,13	**D16S539** 12,13
D18S51 13,18	**D19S433** 14,15.2	**D21S11** 29,32.2	**D22S1045** 15	**Amelogenin** X,Y	**CSF1PO** 9,10
FGA 19,22	**Penta D**	**Penta E**	**SE33** 25.2,29.2	**TH01** 6,7	**TPOX** 8,9
vWA 16	**DYS391** 9	**DYS570**	**DYS576**	**Y Indel** 2	

K6VPTP — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
D7S820 11,12	**D8S1179** 12,12	**D10S1248** 17,18	**D12S391** 15,21	**D13S317** 12,13	**D16S539** 12,13
D18S51 13,18	**D19S433** 14,15.2	**D21S11** 29,32.2	**D22S1045** 15,15	**Amelogenin** X,Y	**CSF1PO** 9,10
FGA 19,22	**Penta D**	**Penta E**	**SE33** 25.2,29.2	**TH01** 6,7	**TPOX** 8,9
vWA 16,16	**DYS391** 9	**DYS570**	**DYS576**	**Y Indel** 2	

K7MD3Q — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	-
D7S820 11,12	**D8S1179** 12	**D10S1248** 17,18	**D12S391** 15,21	**D13S317** 12,13	**D16S539** 12,13
D18S51 13,18	**D19S433** 14,15.2	**D21S11** 29,32.2	**D22S1045** 15	**Amelogenin** X,Y	**CSF1PO** 9,10
FGA 19,22	**Penta D** -	**Penta E** -	**SE33** 25.2,29.2	**TH01** 6,7	**TPOX** 8,9
vWA 16	**DYS391** 9	**DYS570** -	**DYS576** -	**Y Indel** 2	

KJBDLC — PowerPlex® Fusion — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
D7S820 11,12	**D8S1179** 12	**D10S1248** 17,18	**D12S391** 15,21	**D13S317** 12,13	**D16S539** 12,13
D18S51 13,18	**D19S433** 14,15.2	**D21S11** 29,32.2	**D22S1045** 15	**Amelogenin** X,Y	**CSF1PO** 9,10
FGA 19,22	**Penta D** 8,10	**Penta E** 12	**SE33**	**TH01** 6,7	**TPOX** 8,9
vWA 16	**DYS391** 9	**DYS570**	**DYS576**	**Y Indel**	

KLGACU — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
D7S820 11,12	**D8S1179** 12	**D10S1248** 17,18	**D12S391** 15,21	**D13S317** 12,13	**D16S539** 12,13
D18S51 13,18	**D19S433** 14,15.2	**D21S11** 29,32.2	**D22S1045** 15	**Amelogenin** X,Y	**CSF1PO** 9,10
FGA 19,22	**Penta D**	**Penta E**	**SE33** 25.2,29.2	**TH01** 6,7	**TPOX** 8,9
vWA 16	**DYS391** 9	**DYS570**	**DYS576**	**Y Indel** 2	

TABLE 1

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

KLXXKV — GlobalFiler™ Express — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

KQTM8U — PowerPlex® Fusion — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

KT262J — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12	25.2,29.2	6,7	8,9
16	9	22	17		

KWG3HZ — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

KYLTMU — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

L8C69U — GlobalFiler™ Express — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

LFRM8V — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

TABLE 1

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

LLT2NQ — GlobalFiler™ Express

	D1S1656 / ...					
2	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	

LQ39WF — Investigator® 24plex QS

2	12,16	19,24	10,11.3	16,16	11,13	N/A
	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22	N/A	N/A	25.2,29.2	6,7	8,9
	16,16	9	N/A	N/A	N/A	

LRLZ8R — Identifiler® Plus

2		19,24		16	11,13	
	11,12	12			12,13	12,13
	13,18	14,15.2	29,32.2		X,Y	9,10
	19,22				6,7	8,9
	16					

LTDQXJ — GlobalFiler™

2	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	

LU8EFE — GlobalFiler™

2	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	

LVKC3R — GlobalFiler™

2	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	

LWE6XB — PowerPlex® Fusion 6C

2	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22	8,10	12	25.2,29.2	6,7	8,9
	16	9	22	17		

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

LWUFHA — PowerPlex® Fusion

Item						
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22	8,10	12		6,7	8,9
	16	9				

LXQYFW — GlobalFiler™

Item						
	12,16	19,24	10,11.3	16,16	11,13	
2	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16,16	9			2	

M62MPN — GlobalFiler™

Item						
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	

MB8LA8 — GlobalFiler™ Direct

Item						
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	

ME9P2U — GlobalFiler™ (STRmix)

Item						
	12,16	19,24	10,11.3	16,16	11,13	
2	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16,16	9			2	

MEQ9VM — GlobalFiler™

Item						
	12,16	19,24	10,11.3	16,16	11,13	
2	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16,16	9			2	

MEVZXG — PowerPlex® Fusion

Item						
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22	8,10	12		6,7	8,9
	16	9				

TABLE 1

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

MJK9AH — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12	25.2,29.2	6,7	8,9
16	9	22	17		

MKZZBR — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

MMJJ6H — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12	25.2,29.2	6,7	8,9
16	9	22	17		

MND8ND — GlobalFiler™ Express — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

MP8XUR — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22	8,10	12,12	25.2,29.2	6,7	8,9
16,16	9	22	17		

MPQALQ — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22	8,10	12,12	25.2,29.2	6,7	8,9
16,16	9	22	17		

N7VQUJ — Investigator® 24plex (GO!) — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9				

TABLE 1

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

N9UX7E — Investigator® 24plex QS

Item						
2	12,16	19,24	10,11.3	16,16	11,13	N/A
	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22	N/A	N/A	25.2,29.2	6,7	8,9
	16,16	9	N/A	N/A	N/A	

NGCFTN — GlobalFiler™ Express (STRmix)

Item						
2	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	

NJWWVM — PowerPlex® Fusion

Item						
2	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22	8,10	12		6,7	8,9
	16	9				

NT67ML — GlobalFiler™

Item						
2	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	

P83Z9E — PowerPlex® Fusion 5C

Item						
2	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22	8,10	12		6,7	8,9
	16	9				

PAAMYK — GlobalFiler™

Item						
2	12,16	19,24	10,11.3	16,16	11,13	
	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16,16	9			2	

PDQHNB — GlobalFiler™

Item						
2	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	

TABLE 1

Amplification Kits (Probabilistic Genotyping Software)

Item 2 - STR Results

WebCode / Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
PFTLED — PowerPlex® Fusion (2)						
	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22	8,10	12		6,7	8,9
	16	9				
PKADKT — GlobalFiler™ (2)						
	12,16	19,24	10,11.3	16,16	11,13	
	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16,16	9			2	
PWJTMR — GlobalFiler™ Express (2)						
	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	
Q2CPYG — GlobalFiler™ (2)						
	12,16	19,24	10,11.3	16,16	11,13	
	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16,16	9			2	
Q3677Q — GlobalFiler™ (2)						
	12,16	19,24	10,11.3	16,16	11,13	
	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16,16	9,9			2	
Q6BQR7 — PowerPlex® Fusion 6C (2)						
	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22	8,10	12	25.2,29.2	6,7	8,9
	16	9	22	17		
Q8HJTC — PowerPlex® Fusion (2)						
	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22	8,10	12		6,7	8,9
	16	9				

TABLE 1

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

Q9DY8U 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
2	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	

QME4PM GlobalFiler™ (TrueAllele)

Item						
2	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	

QRNG8L GlobalFiler™

Item						
2	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	

QX9GKD PowerPlex® Fusion 5C

Item						
2	12,16	19,24	10,11.3	16,16	11,13	
	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22	8,10	12,12		6,7	8,9
	16,16	9				

QY6VAQ Investigator® 24plex (Genemapper)

Item						
2	12,16	19,24	10,11.3	16,16	11,13	
	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16,16	9				

R2PY32 GlobalFiler™ Direct

Item						
2	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	

R4UUY7 PowerPlex® Fusion 6C

Item						
2	12,16	19,24	10,11.3	16	11,13	
	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22	8,10	12	25.2,29.2	6,7	8,9
	16	9	22	17		

TABLE 1

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

Item 2 - STR Results

R8DJ7G — GlobalFiler™ — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

RBBZHB — PowerPlex® Fusion — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

RC6N27 — GlobalFiler™ — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

RF6WAM — Identifiler® Plus — 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
	19,24		16,16	11,13	
11,12	12,12			12,13	12,13
13,18	14,15.2	29,32.2		X,Y	9,10
19,22				6,7	8,9
16,16					

RHDELK — GlobalFiler™ — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

RJRGC7 — GlobalFiler™ — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

RKGCR8 — GlobalFiler™ Express — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

TABLE 1

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

Item 2 - STR Results

RQAEV7 — PowerPlex® Fusion 6C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12	25.2,29.2	6,7	8,9
16	9	22	17		

RWVWZM — GlobalFiler™ (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

T66VL6 — PowerPlex® Fusion 6C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12	25.2,29.2	6,7	8,9
16	9	22	17		

TC7B77 — GlobalFiler™ Express (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

TD2QKN — GlobalFiler™ (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

TXNMVM — GlobalFiler™ Express (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

U9GTEP — GlobalFiler™ Direct (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

TABLE 1

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

UFZQW6 — GlobalFiler™ (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

UP92LJ — GlobalFiler™ Express (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

UV9D7Z — GlobalFiler™ (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

UVWFYA — PowerPlex® Fusion (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

UYVRUA — PowerPlex® Fusion 5C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12		6,7	8,9
16	9				

V8BNQK — PowerPlex® Fusion 6C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22	8,10	12,12	25.2,29.2	6,7	8,9
16,16	9	22	17		

VD9MMB — GlobalFiler™ (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

TABLE 1

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

Item 2 - STR Results

WebCode / Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
VGQCZF	GlobalFiler™					
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	
VH89TF	GlobalFiler™					
	12,16	19,24	10,11.3	16,16	11,13	
2	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16,16	9			2	
VJFD9P	PowerPlex® Fusion 5C					
	12,16	19,24	10,11.3	16,16	11,13	
2	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22	8,10	12,12		6,7	8,9
	16,16	9				
VNM4EA	PowerPlex® Fusion					
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22	8,10	12		6,7	8,9
	16	9				
VR8WKC	Investigator® 24plex GO!					
	12,16	19,24	10,11.3	16,16	11,13	
2	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16,16	9				
VXCXK7	GlobalFiler™					
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	
W2FNRL	GlobalFiler™					
	12,16	19,24	10,11.3	16,16	11,13	-
2	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22	-	-	25.2,29.2	6,7	8,9
	16,16	9	-	-	2	

TABLE 1

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

W37LNC — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

W99T6Z — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

WAKV7L — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9			2	

WEXBKW — GlobalFiler™ Direct

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

WP2VY7 — Investigator® 24plex

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16,16	11,13	
11,12	12,12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15,15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16,16	9				

WYH8Y3 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22			25.2,29.2	6,7	8,9
16	9			2	

X7FP3Z — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,16	19,24	10,11.3	16	11,13	
11,12	12	17,18	15,21	12,13	12,13
13,18	14,15.2	29,32.2	15	X,Y	9,10
19,22	8,10	12	25.2,29.2	6,7	8,9
16	9	22	17		

TABLE 1

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

Item 2 - STR Results

		D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
X7L92G	GlobalFiler™						
2		12,16	19,24	10,11.3	16	11,13	
		11,12	12	17,18	15,21	12,13	12,13
		13,18	14,15.2	29,32.2	15	X,Y	9,10
		19,22			25.2,29.2	6,7	8,9
		16	9			2	
XDZMXE	GlobalFiler™						
2		12,16	19,24	10,11.3	16	11,13	
		11,12	12	17,18	15,21	12,13	12,13
		13,18	14,15.2	29,32.2	15	X,Y	9,10
		19,22			25.2,29.2	6,7	8,9
		16	9			2	
XG2TAY	PowerPlex® Fusion 6C						
2		12,16	19,24	10,11.3	16	11,13	
		11,12	12	17,18	15,21	12,13	12,13
		13,18	14,15.2	29,32.2	15	X,Y	9,10
		19,22	8,10	12	25.2,29.2	6,7	8,9
		16	9	22	17		
XHX7XR	Identifiler®						
2			19,24		16,16	11,13	
		11,12	12,12			12,13	12,13
		13,18	14,15.2	29,32.2		X,Y	9,10
		19,22				6,7	8,9
		16,16					
XJ2V6Z	PowerPlex® Fusion						
2		12,16	19,24	10,11.3	16	11,13	
		11,12	12	17,18	15,21	12,13	12,13
		13,18	14,15.2	29,32.2	15	X,Y	9,10
		19,22	8,10	12		6,7	8,9
		16	9				
XJ9LB7	GlobalFiler™						
2		12,16	19,24	10,11.3	16,16	11,13	
		11,12	12,12	17,18	15,21	12,13	12,13
		13,18	14,15.2	29,32.2	15,15	X,Y	9,10
		19,22			25.2,29.2	6,7	8,9
		16,16	9			2	
XK3AU2	GlobalFiler™						
2		12,16	19,24	10,11.3	16	11,13	
		11,12	12	17,18	15,21	12,13	12,13
		13,18	14,15.2	29,32.2	15	X,Y	9,10
		19,22			25.2,29.2	6,7	8,9
		16	9			2	

TABLE 1

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

Item 2 - STR Results

XLVPX6	PowerPlex® 5C					
	12,16	19,24	10,11.3	16,16	11,13	
2	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22	8,10	12,12		6,7	8,9
	16,16	9				
XN688E	GlobalFiler™ Direct					
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	
XQRNJ9	GlobalFiler™					
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	
XTDVXH	GlobalFiler™					
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	
Y4R89Y	GlobalFiler™					
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	
Y8THHZ	GlobalFiler™ Express					
	12,16	19,24	10,11.3	16,16	11,13	
2	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16,16	9			2	
YKWENZ	GlobalFiler™					
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	

TABLE 1

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

YMKTCB	GlobalFiler™					
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	

YZACJ8	Investigator® 24plex GO					
	12,16	19,24	10,11.3	16,16	11,13	
2	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16,16	9				

ZEQ369	PowerPlex® Fusion					
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22	8,10	12		6,7	8,9
	16	9				

ZGE424	PowerPlex® Fusion 5C					
	12,16	19,24	10,11.3	16,16	11,13	
2	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22	8,10	12,12		6,7	8,9
	16,16	9				

ZGUXNB	PowerPlex® Fusion 5C					
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22	8,10	12		6,7	8,9
	16	9				

ZJ3HPD	PowerPlex® Fusion					
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22	8,10	12		6,7	8,9
	16	9				

ZMFFXZ	GlobalFiler™ Express					
	12,16	19,24	10,11.3	16,16	11,13	
2	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16,16	9			2	

TABLE 1

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

ZNWCPZ   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
	12,16	19,24	10,11.3	16	11,13	
2	11,12	12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15	X,Y	9,10
	19,22			25.2,29.2	6,7	8,9
	16	9			2	

ZW7CAF   NGM SElect

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
	12,16	19,24	10,11.3	16		
2		12	17,18	15,21		12,13
	13,18	14,15.2	29,32.2	15	X,Y	
	19,22			25.2,29.2	6,7	
	16					

ZZ6M7F   Identifiler® 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
		19,24		16,16	11,13	
2	11,12	12,12			12,13	12,13
	13,18	14,15.2	29,32.2		X,Y	9,10
	19,22				6,7	8,9
	16,16					

TABLE 1

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

Item 3 - STR Results

CNRXBZ — PowerPlex® Fusion, ESX17, VERIFILER — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
11,15,17.3	16,17,20,21	11,11	14,15,16,18	10,11,12	11,12,13
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

E688XZ — PowerPlex® Fusion 6C — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11	19	16		

EUBYH4 — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

F6MNRT — PowerPlex® Fusion 6C — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11	19	16		

JCHMXY — PowerPlex®, GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
11,15,17.3	16,17,20,21	11,11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

LFRM8V — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

LXQYFW — GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
11,15,17.3	16,17,20,21	11,11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

TABLE 1

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

Item 3 - STR Results

MP8XUR PowerPlex® Fusion 6C

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11	19	16		

PKADKT GlobalFiler™

3	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

Q3677Q GlobalFiler™ (LRMix, LabRetriever, EFM, DNAView)

3	11,15,17.3	16,17,20,21	11,12	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,18,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

TD2QKN GlobalFiler™ (STRmix)

3	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

W2FNRL GlobalFiler™

3	11,15,17.3	16,17,20,21	11,11	14,15,16,18	10,11,12	-
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	-	-	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11	-	-	2	

WAKV7L GlobalFiler™ (STRMIX)

3	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

ZW7CAF NGM SElect

3	11,15,17.3	16,17,20,21	11	14,15,16,18		
		12,13,14	13,14	17,20,23		10,12,13
	15,16,17	13,14,15	28,30,32.2,32.2	14,15,16	X,Y	
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	
	16,17,18					

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 3e - STR Results

27AE2D — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				

27AFMB — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

2BVMRV — PowerPlex® Fusion (TrueAllele)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				

2DRGQ8 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

2G6MHV — PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11	19	16		

2L29BJ — PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11,11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
	21,23,24	11,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				

2L6B7A — PowerPlex® Fusion 5c

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	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

2LG6NV — GlobalFiler™

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

39N3H9 — PowerPlex® Fusion

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

3C9H4G — GlobalFiler™

11,15,17.3	16,17,20,21	11,11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

3MBHZA — PowerPlex® 21, PowerPlex®-ESX-17

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	11,12,13
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18					

43YFEA — PowerPlex® Fusion, CS7, Verifiler Plus, NGM SElect

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14		8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13			8,11
16,17,18					

4DW8TZ — PowerPlex® Fusion

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

4ZDZW8 — PowerPlex® Fusion

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
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

623PUT — 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
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

648GM8 — PowerPlex® 5C — 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
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

68CDLW — 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
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

6BAWPG — PowerPlex® Fusion 5C — 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
11,15,17.3	16,17,20,21	11,11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

6GFXZ4 — Identifiler® Plus — 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
	16,17,20,21		14,15,16,18	10,11,12	
9,10,11	12,13,14			8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2		X,Y	10,12,13
21,23,24				6,8,9,9.3	8,11
16,17,18					

6KWX46 — 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
[11],[15],17.3	16,[17],20,[21]	11,11	14,[15],[16],18	10,[11],12	
9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
[15],16,17	[13],14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,[12],13
[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
16,[17],18	11			2	

6PNRRB — PowerPlex® Fusion 6C — 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
[11],15,17.3	16,[17],20,[21]	11,11	14,[15],[16],18	10,[11],12	
9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
[15],16,17	[13],14,15	28,[30],[30.2],32.2	[14],[15],16	X,X,[Y]	10,[12],13
[21],23,24	11,[12],13	[7],[10],12,13	[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
16,[17],18	[11]	[19]	[16]		

TABLE 1

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

Item 3e - STR Results

6RXAZ2 — Investigator® 24plex (Item 3e)

D1S1656 / ...	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11				

6U26J6 — GlobalFiler™ (Item 3e)

D1S1656 / ...	D2S1338	D2S441	D3S1358	D5S818	D6S1043
[11],15,17.3	16,[17],20,[21]	11,11	14,[15],[16],18	10,[11],12	
9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
[15],16,17	[13],14,[15]	28,[30],[30.2],32.2	[14],16	X,[Y]	10,[12],13
[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
16,[17],18	11			2	

722GJ9 — PowerPlex® Fusion 5C (Item 3e)

D1S1656 / ...	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

788D39 — PowerPlex® Fusion (Item 3e)

D1S1656 / ...	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

7B8WAT — GlobalFiler™ (Item 3e)

D1S1656 / ...	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

7HM32D — Identifiler® Plus (Item 3e)

D1S1656 / ...	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,20		14,18	10,12	
9,10	12,14			8,12	12,13
16,17	14,15	28,32.2		X,X	10,13
23,24				8,9.3	8,11
16,18					

7PLU72 — Investigator® 24plex (Item 3e)

D1S1656 / ...	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
16,17	14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
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

7XW64R — PowerPlex® Fusion 5C (TrueAllele)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

8JR9KP — PowerPlex® Fusion (True Allele)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

8MXAMV — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

8UH9GA — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	12,13,14	17,19,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

8YUJN7 — NGM SElect

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
[11],15,17.3	16,[17],20,[21]	11,11	14,[15,16],18		
	12,[13],14	13,14	[17],20,23		[10],12,13
[15],16,17	[13],14,15	28,[30,30.2],32.2	[14,15],16	X,Y	
[21],23,24			[27.2],30.2,31.2,[32.2,33.2]	[6],8,[9],9.3	
16,[17],18					

94VEKB — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11	19	16		

94X4N9 — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,17,20,21	11,11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	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 3e - STR Results

9CEKJ4 — Identifiler® Plus

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,17,20,21		14,15,16,18	10,11,12	
9,10,11	12,13,14			8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2		X,Y	10,12,13
21,23,24				6,8,9,9.3	8,11
16,17,18					

9V3G3V — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
[11],15,17.3	16,[17],20,[21]	11	14,[15],[16],18	10,[11],12	
9,10,[11]	12,13,14	13,14	[17],20,23	8,[9],12,[13]	10,12,13
[15],16,17	13,14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,12,13
[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
16,17,18	[11]			[2]	

9WXZ4W — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

A3JYQA — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11	19	16		

A7Y48W — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,[17],20,[21]	11	14,[15],[16],18	10,11,12	
9,10,[11]	12,13,14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
15,16,17	13,14,15	28,[30],[30.2],32.2	14,15,16	X,[Y]	10,12,13
[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
16,17,18	[11]			[2]	

ADYU4N — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11	19	16		

TABLE 1

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

Item 3e - STR Results

AHDYQ3 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	[11],15,17.3	16,17,20,21	11	14,[15],[16],18	10,[11],12	
	9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
	15,16,17	13,14,15	28,[30],[30.2],32.2	14,15,16	X,[Y]	10,12,13
	[21],23,24			[27.2],30.2,31.2,[33.2]	6,8,9,9.3	8,11
	16,17,18	11			2	

AJ6PMN — PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11	19	16		

AKZG3W — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

ARL22P — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	[11],15,17.3	16,[17],20,[21]	11,11	14,[15],[16],18	10,[11],12	
	9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
	[15],16,17	[13],14,15	28,[30],[30.2],32.2	[14],[15],16,16	X,X,[Y]	10,[12],13
	[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
	16,[17],18	[11]			[2]	

AU6Q8Z — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				

AWWK9B — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	[11],15,17.3	16,17,20,21	11	14,[15],[16],18	10,[11],12	
	9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
	[15],16,17	13,14,15	28,[30],[30.2],32.2	14,15,16p	X,[Y]	10,[12],13
	[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
	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

B4CMV4	GlobalFiler™					
	(11),15,17.3	16,(17),20,(21)	11	14,(15),(16),18	10,(11),12	
3e	9,10,(11)	12,(13),14	13,14	(17),20,23	8,(9),12,(13)	(10),12,13
	(15),16,17	(13),14,15	28,(30),(30.2),32.2	(14),(15),16	X,(Y)	10,(12),13
	(21),23,24			(27.2),30.2,31.2,(33.2)	(6),8,(9),9.3	8,11
	16,(17),18	11			2	

BAXAEV	PowerPlex® Fusion 6C (STRmix)					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11	19	16		

BBUN2M	PowerPlex® Fusion 6C (STRmix)					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11	19	16		

BC43F2	PowerPlex® Fusion					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				

BDXJJ6	GlobalFiler™					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

BGYUQJ	GlobalFiler™					
	[11],15,17.3	16,17,20,21	11	14,[15],[16],18	10,[11],12	
3e	9,10,[11]	12,13,14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
	[15],16,17	13,14,15	28,[30],[30.2],32.2	14,15,16	X,[Y]	10,12,13
	[21],23,24			[27.2],30.2,31.2,[33.2]	6,8,9,9.3	8,11
	16,17,18	11			2	

BH86K3	PowerPlex® Fusion 6C (STRmix)					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11	19	16		

TABLE 1

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

Item 3e - STR Results

BK2T3X PowerPlex® 21

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21		14,15,16,18	10,11,12	11,12,13
	9,10,11	12,13,14		17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2		X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18					

BMNAEQ GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

BQWLM4 GlobalFiler™ (GeneMapper ID-X v1.5)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

BRGCHQ GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	[11],15,17.3	16,[17],20,[21]	11	14,[15],[16],18	10,[11],12	
	9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
	[15],16,17	[13],14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,12,13
	[21],23,24			[27.2],30.2,31.2,[33.2]	6,8,9,9.3	8,11
	16,17,18	11			2	

BRV39L GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

C4NCHV Investigator® 24plex QS

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11				

C6HZ2Q PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11,11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,32.2	14,16	X,Y	10,12,13
	21,23,24	11,12,13	7,12,13		6,8,9,9.3	8,11
	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

C9WQXJ PowerPlex® Fusion (TrueAllele) — 3e

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

CFJXVY PowerPlex® Fusion — 3e

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

CXHHNZ GlobalFiler™ — 3e

[11],15,17.3	16,[17],20,[21]	11	14,[15],[16],18	10,[11],12	
9,10,[11]	12,[13],14	13,14	[17],20,23	8,12,[13]	12,13
[15],16,17	[13],14,15	28,[30.2],32.2	[14],[15],16	X,[Y]	10,12,13
[21],23,24			30.2,31.2	8,[9],9.3	8,11
16,[17],18	[11]			[2]	

D4V3UG PowerPlex® Fusion (TrueAllele) — 3e

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

D8JV8R GlobalFiler™ — 3e

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

DTFA4L Investigator® 24plex QS (FlexPlex 27) — 3e

[11],15,17.3	16,[17],20,[21]	11	14,[15],[16],18	10,[11],12	N/A
9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
[15],16,17	[13],14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,[12],[13]
[21],23,24	N/A	N/A	[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
16,[17],18	11	N/A	N/A	N/A	

DTKDC8 PowerPlex® Fusion 5C — 3e

11,15,17.3	16,17,20,21	11,11	14,15,16,18	10,11,12	
9,10	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
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

E2R8PR	GlobalFiler™					
	11,15,17.3	16,[17],20,[21]	11	14,[15,16],18	10,11,12	
3e	9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
	[15],16,17	[13],14,15	28,[30,30.2],32.2	[14,15],16	X,[Y]	10,12,13
	[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
	16,17,18	[11]			[2]	

E4DGRK	GlobalFiler™					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

EEZFMW	GlobalFiler™					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

EQ74GT	PowerPlex® Fusion 5C					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				

ETFGG3	PowerPlex® CS7, Verifiler, Investigator HDplex, SureID 27comp					
	11,15,17.3	16,17,20,21	11,11	14,15,16,18	10,11,12	11,12,13
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18				2	

EVHB4J	PowerPlex® Fusion (True Allele)					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				

EZJU8Q	PowerPlex® Fusion					
	11,15,17.3	16,20	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	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

F3JT9P — PowerPlex® Fusion 6C (STRmix) — 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
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11	19	16		

F72K8Q — 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
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

F8X49R — 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
[11],15,17.3	16,[17],20,[21]	11,11	14,[15],[16],18	10,[11],12	
9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
[15],16,17	13,14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,12,13
[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
16,17,18	[11]			[2]	

FEUGRK — Investigator® 24plex QS — 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
[11],15,17.3	16,[17],20,[21]	11	14,[15],[16],18	10,[11],12	N/A
9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
[15],16,17	[13],14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,[12],13
[21],23,24	N/A	N/A	[27.2],30.2,31.2,[33.2]	8,[9],9.3	8,11
16,[17],18	11	N/A	N/A	N/A	

FKFCTN — PowerPlex® Fusion — 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
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

FNHNTH — 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
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

FWQHLP — 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
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
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

G2LZTW PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				

GDDNNW GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	[11],15,17.3	16,[17],20,[21]	11	14,[16],18	10,[11],12	-
	9,10	12,[13],14	13,14	20,23	8,12	12,13
	[15],16,17	[13],14,15	28,[30],32.2	16	X	10,[12],13
	[21],23,24	-	-	30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
	16,[17],18	11	-	-	2	

GYT8FY GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

H7UEHR PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				

HENTVT Investigator® 24plex

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11				

HJVF9V PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				

HQYV8V GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	(11),15,17.3	16,(17),20,(21)	11	14,(15),(16),18	10,(11),12	
	9,10,(11)	12,(13),14	13,14	(17),20,23	8,(9),12,(13)	10,12,13
	(15),16,17	(13),14,15	28,(30),(30.2),32.2	(14),(15),16	X,(Y)	10,(12),13
	(21),23,24			(27.2),30.2,31.2,(33.2)	(6),8,(9),9.3	8,11
	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

HT6HGU — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				

HX3A3T — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	15,17.3	16,20,[21]	11,11	14,[15],[16],18	10,[11],12	
	9,10,[11]	12,[13],14	13,14	[17],20,23	8,12,[13]	[10],12,13
	[15],16,17	[13],14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,[12],13
	[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
	16,[17],18	11			2	

J3NXJF — PowerPlex® Fusion (TrueAllele)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				

J9ATJJ — Investigator® 24plex QS, 27FlexPlex

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	[11],15,17.3	16,[17],20,[21]	11	14,[15],[16],18	10,[11],12	N/A
	9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
	[15],16,17	[13],14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,12,13
	[21],23,24	N/A	N/A	[27.2],30.2,31.2,[33.2]	6,8,9,9.3	8,11
	16,[17],18	11	N/A	N/A	N/A	

JG92KK — PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11,11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				

JKQL3U — PowerPlex® 21, Fusion, ESX17

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	11,12,13
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	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 3e - STR Results

JWMXNZ — GlobalFiler™

[11],15,17.3	16,[17],20,[21]	11	14,[15],[16],18	10,[11],12	
9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
[15],16,17	[13],14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,[12],13
[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
16,[17],18	11			2	

K4FV4V — GlobalFiler™

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

K6VPTP — GlobalFiler™

[11],15,17.3	16,[17],20,[21]	11,11	14,[15,16],18	10,[11],12	
9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
[15],16,17	[13],14,15	28,[30,30.2],32.2	[14,15],16	X,[Y]	10,[12],13
[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,9.3	8,11
16,[17],18	[11]			[2]	

K7MD3Q — GlobalFiler™

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	-
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	-	-	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11	-	-	2	

KJBDLC — PowerPlex® Fusion (True Allele)

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

KLGACU — GlobalFiler™

11,15,17.3	16,17,20,21	11	14,[15],[16],18	10,[11],12	
9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
[15],16,17	13,14,15	28,[30],[30.2],32.2	14,15,16p	X,[Y]	10,12,13
[21],23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

KLXXKV — GlobalFiler™

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
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

KQTM8U	PowerPlex® Fusion					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				
KT262J	PowerPlex® Fusion 6C (STRmix)					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11	19	16		
KWG3HZ	GlobalFiler™					
	[11],15,17.3	16,[17],20,[21]	11	14,[15],[16],18	10,[11],12	
3e	9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
	[15],16,17	[13],14,15	28,[30],[30.2],32.2	14,15,16	X,[Y]	10,12,13
	[21],23,24			[27.2],30.2,31.2,[33.2]	6,8,9,9.3	8,11
	16,17,18	11			2	
KYLTMU	GlobalFiler™ (STRmix)					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,19,20,22,23	8,9,12,13	10,11,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16,17	X,Y	10,12,13
	21,22,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11,Q
	16,17,18	11			2	
L8C69U	GlobalFiler™					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	
LLT2NQ	GlobalFiler™					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	
LQ39WF	Investigator® 24plex QS					
	[11],15,17.3	16,[17],20,[21]	11	14,[15],[16],18	10,[11],12	N/A
3e	9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
	[15],16,17	[13],14,15	28,[30],[30.2],32.2	[14],16	X,[Y]	10,[12],13
	[21],23,24	N/A	N/A	[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
	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

LRLZ8R — Identifiler® Plus

3e		16,20,21		14,15,16,18	10,11,12	
	9,10,11	12,13,14			8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2		X,Y	10,12,13
	21,23,24				6,8,9,9.3	8,11
	16,17,18					

LTDQXJ — GlobalFiler™

3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

LU8EFE — GlobalFiler™

3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

LVKC3R — GlobalFiler™

3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

LWE6XB — PowerPlex® Fusion 6C (STRmix)

3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11	19	16		

LWUFHA — PowerPlex® Fusion (TrueAllele)

3e	[11],15,17.3	16,[17],20,[21]	11	14,[15,16],18	10,[11],12	
	9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
	[15],16,17	[13],14,15	28,[30,30.2],32.2	[14,15],16	X,[Y]	10,[12],13
	[21],23,24	11,[12],13	[7,10],12,13		[6],8,[9],9.3	8,11
	16,[17],18	[11]				

M62MPN — GlobalFiler™

3e	[11],15,17.3	16,[17],20,[21]	11	14,[15],[16],18	10,11,12	
	9,10	12,[13],14	13,14	20,23	8,[9],12,[13]	[10],12,13
	[15],16,17	[13],14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,12,13
	[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
	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

MB8LA8 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
[11],15,17.3	16,[17],20,[21]	11	14,[15],[16],18	10,[11],12	
9,10,[11]	12,13,14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
15,16,17	13,14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,12,13
[21],23,24			[27.2],30.2,31.2,[33.2]	6,8,9,9.3	8,11
16,17,18	11			2	

ME9P2U GlobalFiler™ (STRmix)   (3e)

11,14,15,16.3,17.3	16,17,20,21	10,11	14,15,16,18	9,10,11,12	
8,9,10,11	11,12,13,14	12,13,14	17,20,19,22,23	8,9,12,13	10,11,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16,17	X,Y	10,12,13
21,22,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,10,11,Q
15,16,17,18	11			2	

MEQ9VM GlobalFiler™   (3e)

[11],[15],17.3	16,[17],20,[21]	11,11	14,[15],[18]	10,[11],12	
9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
[15],16,17	[13],14,15	28,[30.2],32.2	[14],16	X,[Y]	10,[12],13
[21],23,24			[27.2],30.2,31.2,[33.2]	[6],[8],[9],9.3	8,11
16,[17],18	11			2	

MEVZXG PowerPlex® Fusion   (3e)

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

MJK9AH PowerPlex® Fusion 6C (STRmix)   (3e)

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11	19	16		

MKZZBR GlobalFiler™   (3e)

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	12,13,14	17,19,20,22,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,22,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11,Q
15,16,17,18	11			2	

MMJJ6H PowerPlex® Fusion 6C (STRmix)   (3e)

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11	19	16		

TABLE 1

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

Item 3e - STR Results

MND8ND — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

MPQALQ — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	[11],15,17.3	16,[17],20,[21]	11,11	14,[15],[16],18	10,[11],12	
	9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
	[15],16,17	[13],14,15	28,[30],[30.2],32.2	[14],16,16	X,X,[X,Y]	10,[12],13
	[21],23,24	11,[12],13	[7],[10],12,13	[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
	16,[17],18	[11]	[19]	[16]		

N7VQUJ — Investigator® 24plex

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11				

N9UX7E — Investigator® 24plex QS

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	N/A
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	N/A	N/A	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11	N/A	N/A	N/A	

NGCFTN — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

NJWWVM — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				

NT67ML — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	[11],15,17.3	16,[17],20,[21]	11	14,[15],[16],18	10,11,12	
	9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
	[15],16,17	[13],14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,[12],13
	[21],23,24			[27.2],30.2,31.2,[33.2]	6,8,9,9.3	8,11
	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

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
P83Z9E	PowerPlex® Fusion 5C					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				
PAAMYK	GlobalFiler™					
	(11),15,17.3	16,(17),20,(21)	11,11	14,(15),(16),18	10,(11),12	
3e	9,10,(11)	12,(13),14	13,14	(17),20,23	8,(9),12,(13)	(10),12,13
	(15),16,17	(13),14,15	28,(30),(30.2),32.2	(14),(15),16	X,(Y)	10,12,13
	(21),23,24			(27.2),30.2,31.2,(33.2)	(6),8,(9),9.3	8,11
	16,17,18	11			2	
PDQHNB	GlobalFiler™					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	
PFTLED	PowerPlex® Fusion					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				
PWJTMR	GlobalFiler™ (STRmix)					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	
Q2CPYG	GlobalFiler™					
	[11],15,17.3	16,[17],20,[21]	11	14,[15],[16],18	10,[11],12	
3e	9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
	[15],16,17	[13],14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,12,13
	[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
	16,17,18	[11]			[2]	
Q6BQR7	PowerPlex® Fusion 6C (STRmix)					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11	19	16		

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 3e - 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
Q8HJTC	PowerPlex® Fusion					
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9.3	8,11
	16,17,18	11				
Q9DY8U	GlobalFiler™					
3e	[11],15,17.3	16,[17],20,[21]	11	14,[15],[16],18	10,[11],12	
	9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	10,12,13
	[15],16,17	13,14,15	28,[30],[30.2],32.2	14,15,16	X,[Y]	10,12,13
	[21],23,24			[27.2],30.2,31.2,[33.2]	6,8,9,9.3	8,11
	16,17,18	11			2	
QME4PM	GlobalFiler™ (TrueAllele)					
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	
QRNG8L	GlobalFiler™					
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	
QX9GKD	PowerPlex® Fusion 5C					
3e	11,15,17.3	16,17,20,21	11,11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				
QY6VAQ	Investigator® 24plex (Genemapper)					
3e	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
R2PY32	GlobalFiler™					
3e	[11],15,17.3	16,17,20,21	11	14,[15],[16],18	10,[11],12	
	9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
	[15],16,17	13,14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,12,13
	[21],23,24			[27.2],30.2,31.2,[33.2]	6,8,9,9.3	8,11
	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

R4UUY7	PowerPlex® Fusion 6C (STRmix)					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11	19	16		

R8DJ7G	GlobalFiler™					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

RBBZHB	PowerPlex® Fusion					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				

RC6N27	GlobalFiler™					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

RF6WAM	Identifiler® Plus					
		16,17,20,21		14,15,16,18	10,11,12	
3e	9,10,11	12,13,14			8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2		X,Y	10,12,13
	21,23,24				6,8,9,9.3	8,11
	16,17,18					

RHDELK	GlobalFiler™					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

RJRGC7	GlobalFiler™					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	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

RKGCR8 — GlobalFiler™

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
[11],15,17.3	16,[17],20,[21]	11,11	14,[15],[16],18	10,[11],12	
9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
[15],16,17	[13],14,15	28,[30],[30.2],32.2	[14],[15],16,16	X,X,[Y]	10,[12],13
[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
16,[17],18	[11]			[2]	

RQAEV7 — 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
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11	19	16		

RWVWZM — 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
11,15,17.3	16,17,20,21	11,11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,19,20,22,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16,17	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11,Q
16,17,18	11			2	

T66VL6 — 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
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11	19	16		

TC7B77 — GlobalFiler™

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

TXNMVM — GlobalFiler™

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

U9GTEP — GlobalFiler™

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
[11],15,17.3	16,[17],20	11	14,[15],[16],18	10,[11],12	
9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
[15],16,17	13,14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,[12],13
[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
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

UFZQW6 GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	[11],15,17.3	16,[17],20,[21]	11	14,[15],[16],18	10,[11],12	
	9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,[13]
	[15],16,17	[13],14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,12,13
	[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
	16,[17],18	11			2	

UP92LJ GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

UVWFYA PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,20	11	14,16,18	10,12	
	9,10	12,14	13,14	17,20,23	8,12,13	10,12,13
	16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
	21,23,24	11,13	7,10,12,13		6,8,9.3	8,11
	16,18	11				

UYVRUA PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				

V8BNQK PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18					

VD9MMB GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	[11],15,17.3	16,[17],20,[21]	11	14,[15],[16],18	10,[11],12	
	9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,[13]
	[15],16,17	[13],14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,12,13
	[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
	16,[17],18	[11]			[2]	

VGQCZF GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3e	15,17.3	16,20	11	14,[16],18	10,11,12	
	9,10	12,[13],14	13,14	20,23	8,12	12,13
	16,17	[13],14,15	28,32.2	[14],[15],16	X	10,12,13
	[21],23,24			30.2,31.2	[6],8,9.3	8,11
	16,17,18				[2]	

TABLE 1

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

Item 3e - STR Results

VH89TF — 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
[11],15,17.3	16,[17],20,[21]	11,11	14,[15],[16],18	10,[11],12	
9,10,[11]	12,[13],[14]	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
[15],16,17	[13],14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,[12],13
[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
16,[17],18	11			2	

VJFD9P — PowerPlex® Fusion 5C — 3e

11,15,17.3	16,17,20,21	11,11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
21,23,24	11,13	7,10,12,13		6,8,9.3	8,11
16,17,18	11				

VNM4EA — PowerPlex® Fusion — 3e

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

VR8WKC — Investigator® 24plex QS — 3e

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11				

VXCXK7 — GlobalFiler™ — 3e

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

W37LNC — GlobalFiler™ — 3e

11,15,17.3	16,17,20,21	11	14,15,16,18	10,[11],12	
9,10,[11]	12,13,14	13,14	[17],20,23	8,9,12,13	[10],12,13
[15],16,17	13,14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,12,13
[21],23,24			[27.2],30.2,31.2,[33.2]	6,8,9,9.3	8,11
16,17,18	11			2	

W99T6Z — GlobalFiler™ — 3e

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
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

WEXBKW	GlobalFiler™					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	
WP2VY7	Investigator® 24plex					
	15,17.3	16,20	11,11	14,18	10,12	
3e	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
WYH8Y3	GlobalFiler™					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	
X7FP3Z	PowerPlex® Fusion 6C (STRmix)					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11	19	16		
X7L92G	GlobalFiler™ (STRmix)					
	11,15,16.3,17.3	16,17,20,21	10,11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	12,13,14	17,19,20,22,23	8,9,12,13	10,11,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,22,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,10,11,Q
	16,17,18	11			2	
XDZMXE	GlobalFiler™					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	
XG2TAY	PowerPlex® Fusion 6C (STRmix)					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13	27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11	19	16		

TABLE 1

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

Item 3e - STR Results

XHX7XR   Identifiler®

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
		16,20		14,18	10,12	
3e	9,10	12,14			8,12	12,13
	16,17	14,15	28,32.2		X,X	10,13
	23,24				8,9.3	8,11
	16,18					

XJ2V6Z   PowerPlex® Fusion (TrueAllele)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				

XJ9LB7   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	[11],15,17.3	16,17,20,21	11	14,[15,16],18	10,11,12	
3e	9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
	[15],16,17	13,14,15	28,[30,30.2],32.2	[14,15],16	X,[Y]	10,12,13
	[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
	16,[17],18	[11]			[2]	

XK3AU2   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	

XLVPX6   PowerPlex® 5C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	11,15,17.3	16,17,20,21	11,11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				

XN688E   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	[11],15,17.3	16,[17],20,[21]	11	14,[15],[16],18	10,[11],12	
3e	9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
	[15],16,17	[13],14,15	28,[30],[30.2],32.2	[14],[15],16	X,[Y]	10,[12],13
	[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
	16,17,18	11			2	

XQRNJ9   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3e	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	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

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
XTDVXH	GlobalFiler™					
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	
Y4R89Y	GlobalFiler™					
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	
Y8THHZ	GlobalFiler™					
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	
YKWENZ	GlobalFiler™					
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11			2	
YMKTCB	GlobalFiler™					
3e	11,15,17.3	16,[17],20,[21]	11	14,15,16,18	10,11,12	
	9,10,[11]	12,13,14	13,14	[17],20,23	8,[9],12,[13]	[10],12,13
	15,16,17	13,14,15	28,[30],[30.2],32.2	[14],[15],16	X,Y	10,12,13
	[21],23,24			[27.2],30.2,31.2,[33.2]	6,8,9,9.3	8,11
	16,17,18	11			2	
YZACJ8	Investigator® 24plex QS					
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
	16,17,18	11				
ZEQ369	PowerPlex® Fusion					
3e	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	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

ZGE424 — PowerPlex® Fusion 5C — 3e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,17,20,21	11,11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

ZGUXNB — PowerPlex® Fusion 5C — 3e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

ZJ3HPD — PowerPlex® Fusion — 3e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

ZMFFXZ — GlobalFiler™ — 3e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24			27.2,30.2,31.2,33.2	6,8,9,9.3	8,11
16,17,18	11			2	

ZNWCPZ — GlobalFiler™ (STRmix) — 3e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
[11],15,17.3	16,[17],20,[21]	11	14,[15,16],18	10,[11],12	
9,10,[11]	12,[13],14	13,14	[17],20,23	8,[9],12,[13]	[10],12,[13]
[15],16,17	[13],14,15	28,[30,30.2],32.2	[14],16	X,[Y]	10,[12],13
[21],23,24			[27.2],30.2,31.2,[33.2]	[6],8,[9],9.3	8,11
16,[17],18	11			2	

ZZ6M7F — Identifiler® Plus — 3e

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,[17],20,[21]		14,[15],[16],18	10,[11],12	
9,10,[11]	12,[13],14			8,[9],12,[13]	[10],12,13
[15],16,17	[13],14,15	28,[30],[30.2],32.2		X,[Y]	10,[12],13
[21],23,24				[6],8,[9],9.3	8,11
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 3sp - STR Results

27AE2D PowerPlex® Fusion

3sp					
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
17	11				

27AFMB GlobalFiler™

3sp					
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

2BVMRV PowerPlex® Fusion (TrueAllele)

3sp					
11,[15],17.3	[16],17,[20],21	11	15,16	[10],11,12	
[9],10,11	12,13	13,14	17,20	9,[12],13	10,12
15,[16],17	13,14	30,30.2	14,15,[16]	X,Y	12
21,[23],24	11,12	7,10		6,9	8,11
17	11				

2DRGQ8 GlobalFiler™

3sp					
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

2G6MHV PowerPlex® Fusion 6C (STRmix)

3sp					
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10	27.2,33.2	6,9	8,11
17	11	19	16		

2L29BJ PowerPlex® Fusion 5C

3sp					
11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24	11,12	7,10		6,9	8,11
17,17	11				

2L6B7A PowerPlex® Fusion 5c

3sp					
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
17	11				

TABLE 1

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

Item 3sp - STR Results

2LG6NV GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	11,17.3	17,21	11	15,16	11,12	
3sp	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	

39N3H9 PowerPlex® Fusion

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	11,17.3	17,21	11	15,16	11,12	
3sp	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24	11,12	7,10		6,9	8,11
	17	11				

3C9H4G GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	11,17.3	17,21	11,11	15,16	11,12	
3sp	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24			27.2,33.2	6,9	8,11
	17,17	11			2	

3MBHZA PowerPlex® 21, PowerPlex®-ESX-17

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	11,17.3	17,21	11	15,16	11,12	11
3sp	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24	11,12	7,10	27.2,33.2	6,9	8,11
	17					

43YFEA PowerPlex® Fusion, CS7, Verifiler Plus, NGM SElect

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	11,17.3	17,21	11	15,16	11,12	11
3sp	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24	11,12	7,10	27.2,33.2	6,9	8,11
	17					

4DW8TZ PowerPlex® Fusion

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3sp	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				

4ZDZW8 PowerPlex® Fusion

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	11,17.3	17,21	11	15,16	11,12	
3sp	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24	11,12	7,10		6,9	8,11
	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

623PUT — GlobalFiler™

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

648GM8 — PowerPlex® 5C

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
17	11				

68CDLW — GlobalFiler™

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

6BAWPG — PowerPlex® Fusion 5C

11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24	11,12	7,10		6,9	8,11
17,17	11				

6GFXZ4 — Identifiler® Plus

	17,21		15,16	11,12	
10,11	12,13			9,13	10,12
15,17	13,14	30,30.2		X,Y	12,12
21,24				6,9	8,11
17,17					

6KWX46 — GlobalFiler™

11,[15],17.3	[16],17,[20],21	11,11	15,16	11,12	
10,11	12,13,[14]	13,14	17,20	9,[12],13	10,12
15,17	13,14	[28],30,30.2,[32.2]	14,15,[16]	X,Y	[10],12,[13]
21,24			27.2,[30.2],[31.2],33.2	6,[8],9	8,11
17,[18]	11			2	

6PNRRB — PowerPlex® Fusion 6C

11,17.3	17,21	[10.1],11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24	11,12	7,10	27.2,[32.2],33.2	6,9	8,11
17,17	11	19	16		

TABLE 1

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

Item 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
6RXAZ2	Investigator® 24plex					
3sp	11,17.3	17,21	11,11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24			27.2,33.2	6,9	8,11
	17,17	11				
6U26J6	GlobalFiler™					
3sp	11,17.3	17,21	11,11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24			27.2,33.2	6,9	8,11
	17,17	11			2	
722GJ9	PowerPlex® Fusion 5C					
3sp	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24	11,12	7,10		6,9	8,11
	17	11				
788D39	PowerPlex® Fusion					
3sp	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24	11,12	7,10		6,9	8,11
	17	11				
7B8WAT	GlobalFiler™					
3sp	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	
7HM32D	Identifiler® Plus					
3sp		17,21		15,16	11,12	
	10,11	12,13			9,13	10,12
	15,17	13,14	30,30.2		X,Y	12,12
	21,24				6,9	8,11
	17,17					
7PLU72	Investigator® 24plex					
3sp	11,17.3	17,21	11,11	15,16	11,12	
	10,11	12,13,[14]	13,14	17,20	9,13	10,12
	15,17	13,14	[28],30,30.2	14,15	X,Y	12,12
	21,24			27.2,33.2	6,9	8,11
	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

7XW64R PowerPlex® Fusion 5C (TrueAllele)

11,[15],17.3	[16],17,[20],21	11	[14],15,16,[18]	[10],11,12	
[9],10,11	12,13,[14]	13,14	17,20,[23]	[8],9,[12],13	10,12,[13]
15,[16],17	13,14,[15]	[28],30,30.2,[32.2]	14,15,[16]	X,Y	[10],12,[13]
21,[23],24	11,12,[13]	7,10,[12],[13]		6,[8],9,[9.3]	8,11
[16],17,[18]	11				

(3sp)

8JR9KP PowerPlex® Fusion (True Allele)

11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

(3sp)

8MXAMV PowerPlex® Fusion

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
17	11				

(3sp)

8UH9GA GlobalFiler™ (STRmix)

10,11,16.3,17.3,Q	16,17,20,21,Q	10,11,12,Q	14,15,16,Q	10,11,12,Q	
10,11,Q	11,12,13,14,Q	12,13,14,Q	16,17,19,20,Q	9,12,13,Q	10,11,12,Q
14,15,16,17,Q	12,13,14,Q	29,30,30.2,Q	13,14,15,Q	X,Y	11,12,Q
21,24,Q			26.2,27.2,32.2,33.2,Q	6,9,Q	8,11,Q
16,17,Q	11			2	

(3sp)

8YUJN7 NGM SElect

11,17.3	17,21	11,11	15,16		
	12,13	13,14	17,20		10,12
15,17,[18]	13,14	30,30.2	14,15	X,Y	
21,24			27.2,33.2	6,9	
17,17					

(3sp)

94VEKB PowerPlex® Fusion 6C (STRmix)

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10	27.2,33.2	6,9	8,11
17	11	19	16		

(3sp)

94X4N9 PowerPlex® Fusion 5C

11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24	11,12	7,10		6,9	8,11
17,17	11				

(3sp)

TABLE 1

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

Item 3sp - STR Results

9CEKJ4 Identifiler® Plus

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,21		15,16	11,12	
10,11	12,13			9,13	10,12
15,17	13,14	30,30.2		X,Y	12
21,24				6,9	8,11
17					

9V3G3V GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24			27.2,33.2	6,9	8,11
17,17	11			2	

9WXZ4W PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
17	11				

A3JYQA PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10	27.2,33.2	6,9	8,11
17	11	19	16		

A7Y48W GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24			27.2,33.2	6,9	8,11
17,17	11			2	

ADYU4N PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10	27.2,33.2	6,9	8,11
17	11	19	16		

AHDYQ3 GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
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

AJ6PMN	PowerPlex® Fusion 6C (STRmix)					
	11,17.3	17,21	11	15,16	11,12	
3sp	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24	11,12	7,10	27.2,33.2	6,9	8,11
	17	11	19	16		
AKZG3W	GlobalFiler™					
	11,17.3	17,21	11	15,16	11,12	
3sp	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	
ARL22P	GlobalFiler™					
	11,17.3	17,21	11,11	15,16	11,12	
3sp	10,11	12,13,[14]	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	[10],12,12
	21,24			27.2,33.2	6,9	8,11
	17,17	11			2	
AU6Q8Z	PowerPlex® Fusion					
	11,17.3	17,21	11	15,16	11,12	
3sp	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24	11,12	7,10		6,9	8,11
	17	11				
AWWK9B	GlobalFiler™					
	11,17.3	17,21	11	15,16	11,12	
3sp	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	
B4CMV4	GlobalFiler™					
	11,17.3	17,21	11	15,16	11,12	
3sp	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	
BAXAEV	PowerPlex® Fusion 6C (STRmix)					
	11,17.3	17,21	11	15,16	11,12	
3sp	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24	11,12	7,10	27.2,33.2	6,9	8,11
	17	11	19	16		

TABLE 1

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

Item 3sp - STR Results

BBUN2M PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10	27.2,33.2	6,9	8,11
17	11	19	16		

BC43F2 PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
17	11				

BDXJJ6 GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

BGYUQJ GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

BH86K3 PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	17,21	11	15,16,18	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10	27.2,33.2	6,9	8,11
17	11	19	16		

BK2T3X PowerPlex® 21

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21		15,16	11,12	11,11
10,11	12,13		17,20	9,13	10,12
15,17	13,14	30,30.2		X,Y	12,12
21,24	11,12	7,10		6,9	8,11
17,17					

BMNAEQ GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
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

BQWLM4 GlobalFiler™ (GeneMapper ID-X v1.5)

3sp					
11,17.3	17,21	11,11	15,16	11,12	
10,11		13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24			27.2,33.2	6,9	8,11
17,17	11			2	

BRGCHQ GlobalFiler™

3sp					
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

BRV39L GlobalFiler™

3sp					
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

C4NCHV Investigator® 24plex QS

3sp					
11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24			27.2,33.2	6,9	8,11
17,17	11				

C6HZ2Q PowerPlex® Fusion 5C

3sp					
11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24	11,12	7,10		6,9	8,11
17,17	11				

C9WQXJ PowerPlex® Fusion (TrueAllele)

3sp					
11,17.3	17,[20],21	11	[14],15,16	[10],11,12	
10,11	12,13	13,14	17,20	9,[12],13	10,12
15,17	13,14	30,30.2	14,15,[16]	X,Y	12
21,24	11,12	7,10,[13]		6,9	8,11
17,[18]	11				

CFJXVY PowerPlex® Fusion

3sp					
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
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

CXHHNZ — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	

D4V3UG — PowerPlex® Fusion (TrueAllele)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	11,17.3	17,[20],21	11	[14],15,16	[10],11,12	
	[9],10,11	12,13,[14]	13,14	17,20	9,13	10,12,[13]
	15,17	13,14	30,30.2,[32.2]	14,15,[16]	X,Y	12
	21,[23],24	11,12	7,10		6,9	8,11
	[16],17	11				

D8JV8R — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	

DTFA4L — Investigator® 24plex QS (FlexPlex 27)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	11,17.3	17,21	11,11	15,16	11,12	11,11
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24	N/A	7,10	27.2,33.2	6,9	8,11
	17,17	11	19	16	N/A	

DTKDC8 — PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	11,17.3	17,21	11,11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,[12],13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24	11,12	7,10		6,9	8,11
	17,17	11				

E2R8PR — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	11,17.3	17,21	11,11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24			27.2,33.2	6,9	8,11
	17,17	11			2	

E4DGRK — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	11,17.3	17,21	11,11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24			27.2,33.2	6,9	8,11
	17,17	11			2	

TABLE 1

WebCode / Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

EEZFMW — GlobalFiler™ — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

EQ74GT — PowerPlex® Fusion 5C — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
17	11				

ETFGG3 — PowerPlex® CS7, Verifiler, Investigator HDplex, SureID 27comp — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11,11	15,16	11,12	11,11
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24	11,12	7,10	27.2,33.2	6,9	8,11
17,17				2	

EVHB4J — PowerPlex® Fusion (True Allele) — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
16,17,18	11				

EZJU8Q — PowerPlex® Fusion — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
17	11				

F3JT9P — PowerPlex® Fusion 6C (STRmix) — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10	27.2,33.2	6,9	8,11
17	11	19	16		

F72K8Q — GlobalFiler™ — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
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

F8X49R — 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
11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24			27.2,33.2	6,9	8,11
17,17	11			2	

FEUGRK — Investigator® 24plex QS (3sp)

17.3	16,20	11	14,15	10,11,12	N/A
10	12,13,14	13,14	20	8,9	12,13
17	14	30.2,32.2	16	X	10,12,13
23,24	N/A	N/A	INC	INC	8,11
16	INC	N/A	N/A	N/A	

FKFCTN — PowerPlex® Fusion (3sp)

11,17.3	[16],17,[20],21	11	[14],15,16,[18]	[10],11,12	
[9],10,11	12,13,[14]	13,14	17,20	[8],9,[12],13	10,12,[13]
15,[16],17	13,14,[15]	[28],30,30.2,[32.2]	14,15,[16]	X,Y	[10],12,[13]
21,[23],24	11,12,[13]	7,10,[12]		6,[8],9	8,11
[16],17	11				

FNHNTH — GlobalFiler™ (3sp)

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

FWQHLP — GlobalFiler™ (3sp)

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

G2LZTW — PowerPlex® Fusion (3sp)

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
17	11				

GDDNNW — GlobalFiler™ (3sp)

11,[15],17.3	[16],17,[20],21	11	[14],15,16,[18]	[10],11,12	-
[9],10,11	12,13,[14]	13,14	17,20,[23]	[8],9,[12],13	10,12,[13]
15,[16],17	13,14,[15]	[28],30,30.2,[32.2]	14,15,[16]	X,Y	[10],12,[13]
21,[23],24	-	-	27.2,[30.2],[31.2],33.2	6,[8],9,[9.3]	8,11
[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 3sp - STR Results

GYT8FY — 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
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

H7UEHR — PowerPlex® Fusion 5C — 3sp

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
17	11				

HENTVT — Investigator® 24plex — 3sp

11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24			27.2,33.2	6,9	8,11
17,17	11				

HJVF9V — PowerPlex® Fusion 5C — 3sp

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
17	11				

HQYV8V — GlobalFiler™ — 3sp

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

HT6HGU — PowerPlex® Fusion — 3sp

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
17	11				

HX3A3T — GlobalFiler™ — 3sp

11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24			27.2,33.2	6,9	8,11
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

J3NXJF	PowerPlex® Fusion (TrueAllele)					
	11,15,17.3	16,17,20,21	11	14,15,16,18	10,11,12	
3sp	9,10,11	12,13,14	13,14	17,20,23	8,9,12,13	10,12,13
	15,16,17	13,14,15	28,30,30.2,32.2	14,15,16	X,Y	10,12,13
	21,23,24	11,12,13	7,10,12,13		6,8,9,9.3	8,11
	16,17,18	11				
J9ATJJ	Investigator® 24plex QS, 27FlexPlex					
	11,17.3	17,21	11,11	15,16	11,12	N/A
3sp	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24	N/A	N/A	27.2,33.2	6,9	8,11
	17,17	11	N/A	N/A	N/A	
JG92KK	PowerPlex® Fusion 5C					
	11,17.3	17,21	11,11	15,16	11,12	
3sp	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24	11,12	7,10		6,9	8,11
	17,17	11				
JKQL3U	PowerPlex® 21, Fusion, ESX17					
	11,17.3	17,21	11	15,16	11,12	11
3sp	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24	11,12	7,10	27.2,33.2	6,9	8,11
	17	11				
JWMXNZ	GlobalFiler™					
	11,17.3	17,21	11	15,16	11,12	
3sp	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	
K4FV4V	GlobalFiler™					
	11,17.3	17,21	11	15,16	11,12	
3sp	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	
K6VPTP	GlobalFiler™					
	11,17.3	17,21	11,11	15,16,[18]	11,12	
3sp	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24			27.2,33.2	6,9	8,11
	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

K7MD3Q — GlobalFiler™

11,17.3	17,21	11	15,16	11,12	-
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	-	-	27.2,33.2	6,9	8,11
17	11	-	-	2	

KJBDLC — PowerPlex® Fusion (True Allele)

11,[15],17.3	[16],17,[20],21	11	[14],15,16,[18]	[10],11,12	
[9],10,11	12,13,[14]	13,14	17,20,[23]	[8],9,[12],13	10,12,[13]
15,[16],17	13,14,[15]	[28],30,30.2,[32.2]	14,15,[16]	X,Y	[10],12,[13]
21,[23],24	11,12,[13]	7,10,[12,13]		6,[8],9,[9.3]	8,11
[16],17,[18]	11				

KLGACU — GlobalFiler™

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

KLXXKV — GlobalFiler™

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

KQTM8U — PowerPlex® Fusion

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
17	11				

KT262J — PowerPlex® Fusion 6C (STRmix)

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10	27.2,33.2	6,9	8,11
17	11	19	16		

KWG3HZ — GlobalFiler™

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	10,11			2	

TABLE 1

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

Item 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
KYLTMU GlobalFiler™ (STRmix)						
3sp	11,17.3	17,21	11,11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24			27.2,33.2	6,9	8,11
	17,17	11			2	
L8C69U GlobalFiler™						
3sp	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	
LLT2NQ GlobalFiler™						
3sp	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	
LQ39WF Investigator® 24plex QS						
3sp	11,17.3	17,21	11,11	15,16	11,12	11,11
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24	N/A	7,10	27.2,33.2	6,9	8,11
	17,17	11	19	16	N/A	
LRLZ8R Identifiler® Plus						
3sp		17,21		15,16	11,12	
	10,11	12,13			9,13	10,12
	15,17	13,14	30,30.2		X,Y	12
	21,24				6,9	8,11
	17					
LTDQXJ GlobalFiler™						
3sp	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	
LU8EFE GlobalFiler™						
3sp	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	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

LVKC3R — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

LWE6XB — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10	27.2,33.2	6,9	8,11
17	11	19	16		

LWUFHA — PowerPlex® Fusion (TrueAllele)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,[15],17.3	[16],17,[20],21	11	[14],15,16,[18]	[10],11,12	
[9],10,11	12,13,[14]	13,14	17,20	[8],9,[12],13	10,12,[13]
15,[16],17	13,14,[15]	[28],30,30.2,[32.2]	14,15,[16]	X,Y	[10],12,[13]
21,[23],24	11,12,[13]	7,10,[12,13]		6,[8],9,[9.3]	8,11
[16],17,[18]	11				

M62MPN — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

MB8LA8 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

ME9P2U — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24			27.2,33.2	6,9	8,11
17,17	11			2	

MEQ9VM — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	[8],9,13	10,12
15,[17]	13,14	30,30.2	14,[15]	X,Y	12,12
21,24			27.2,33.2	6,9	8,11
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

MEVZXG — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
17	11				

MJK9AH — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10	27.2,33.2	6,9	8,11
17	11	19	16		

MKZZBR — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

MMJJ6H — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10	27.2,33.2	6,9	8,11
17	11	19	16		

MND8ND — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24			27.2,33.2	6,9	8,11
17,17	11			2	

MPQALQ — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24	11,12	7,10	27.2,33.2	6,9	8,11
17,17	11	19	16		

N7VQUJ — Investigator® 24plex

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24			27.2,33.2	6,9	8,11
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

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
N9UX7E 3sp — Investigator® 24plex QS	11,15,17.3	20	11	15,16,18	10,12	N/A
	9,10	12,13	13,14	17,20,23	8,12,13	10,12
	15,16,17	13,14	28,30,30.2,32.2	15,16	X,Y	12
	23,24	N/A	N/A	27.2,30.2,31.2,33.2	8	8,11
	16,17	11	N/A	N/A	N/A	
NGCFTN 3sp — GlobalFiler™ (STRmix)	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	
NJWWVM 3sp — PowerPlex® Fusion	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24	11,12	7,10		6,9	8,11
	17	11				
NT67ML 3sp — GlobalFiler™	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	
P83Z9E 3sp — PowerPlex® Fusion 5C	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24	11,12	7,10		6,9	8,11
	17	11				
PAAMYK 3sp — GlobalFiler™	11,17.3	17,21	11,11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24			27.2,33.2	6,9	8,11
	17,17	11			2	
PDQHNB 3sp — GlobalFiler™	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	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

PFTLED — PowerPlex® Fusion

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
	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24	11,12	7,10		6,9	8,11
	17	11				

PWJTMR — GlobalFiler™ (STRmix)

3sp						
	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	

Q2CPYG — GlobalFiler™

3sp						
	11,17.3	17,21	11,11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24			27.2,33.2	6,9	8,11
	17,17	11			2	

Q6BQR7 — PowerPlex® Fusion 6C (STRmix)

3sp						
	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24	11,12	7,10	27.2,33.2	6,9	8,11
	17	11	19	16		

Q8HJTC — PowerPlex® Fusion

3sp						
	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24	11,12	7,10		6,9	8,11
	17	11				

Q9DY8U — GlobalFiler™

3sp						
	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	

QME4PM — GlobalFiler™ (TrueAllele)

3sp						
	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	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

QRNG8L — GlobalFiler™ — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

QX9GKD — PowerPlex® Fusion 5C — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24	11,12	7,10		6,9	8,11
17,17	11				

QY6VAQ — Investigator® 24plex (Genemapper) — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24			27.2,33.2	6,9	8,11
17,17	11				

R2PY32 — GlobalFiler™ — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

R4UUY7 — PowerPlex® Fusion 6C (STRmix) — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10	27.2,33.2	6,9	8,11
17	11	19	16		

R8DJ7G — GlobalFiler™ — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

RBBZHB — PowerPlex® Fusion — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
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

RC6N27 — 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
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

RF6WAM — 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
	17,21		15,16	11,12	
10,11	12,13			9,13	10,12
15,17	13,14	30,30.2		X,Y	12,12
21,24				6,9	8,11
17,17					

RHDELK — 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
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

RJRGC7 — 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
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

RKGCR8 — 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
11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24			27.2,33.2	6,9	8,11
17,17	11			2	

RQAEV7 — 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
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10	27.2,33.2	6,9	8,11
17	11	19	16		

RWVWZM — 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
11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24			27.2,33.2	6,9	8,11
17,17	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

T66VL6 — PowerPlex® Fusion 6C (STRmix)

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10	27.2,33.2	6,9	8,11
17	11	19	16		

TC7B77 — GlobalFiler™

11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24			27.2,33.2	6,9	8,11
17,17	11			2	

TXNMVM — GlobalFiler™

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

U9GTEP — GlobalFiler™

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	10,11			2	

UFZQW6 — GlobalFiler™

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

UP92LJ — GlobalFiler™ (STRmix)

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

UVWFYA — PowerPlex® Fusion

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
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

UYVRUA — PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24	11,12	7,10		6,9	8,11
	17	11				

V8BNQK — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	11,17.3	17,21	11,11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24	11,12	7,10	27.2,33.2	6,9	8,11
	17,17	11	19	16		

VD9MMB — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	11,17.3	17,21	11,11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24			27.2,33.2	6,9	8,11
	17,17	11			2	

VGQCZF — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	

VH89TF — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	11,17.3	17,21	11,11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24			27.2,33.2	6,9	8,11
	17,17	11			2	

VJFD9P — PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	11,17.3	17,21	11,11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24	11,12	7,10		6,9	8,11
	17,17	11				

VNM4EA — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3sp	11,[15],17.3	[16],17,[20],21	11	[14],15,16,[18]	[10],11,12	
	[9],10,11	12,13,[14]	13,14	17,20,[23]	[8],9,[12],13	10,12,[13]
	15,[16],17	13,14,[15]	[28],30,30.2,[32.2]	14,15,[16]	X,Y	[10],12,[13]
	21,[23],24	11,12,[13]	7,10,[12],[13]		6,[8],9,[9.3]	8,11
	[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 3sp - STR Results

VR8WKC — Investigator® 24plex QS

	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3sp	11,17.3	17,21	11,11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24			27.2,33.2	6,9	8,11
	17,17	11				

VXCXK7 — GlobalFiler™

3sp	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	

W37LNC — GlobalFiler™

3sp	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	

W99T6Z — GlobalFiler™

3sp	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	

WEXBKW — GlobalFiler™

3sp	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	17	11			2	

WP2VY7 — Investigator® 24plex

3sp	11,17.3	17,21	11,11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24			27.2,33.2	6,9	8,11
	17,17	11				

WYH8Y3 — GlobalFiler™

3sp	11,17.3	17,21	11	15,16	11,12	
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12
	21,24			27.2,33.2	6,9	8,11
	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

X7FP3Z — PowerPlex® Fusion 6C (STRmix)

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10	27.2,33.2	6,9	8,11
17	11	19	16		

X7L92G — GlobalFiler™ (STRmix)

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

XDZMXE — GlobalFiler™

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

XG2TAY — PowerPlex® Fusion 6C (STRmix)

11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10	27.2,33.2	6,9	8,11
17	11	19	16		

XHX7XR — Identifiler®

	17,21		15,16	11,12	
10,11	12,13			9,13	10,12
15,17	13,14	30,30.2		X,Y	12
21,24				6,9	8,11
17					

XJ2V6Z — PowerPlex® Fusion (TrueAllele)

11,17.3	[16],17,[20],21	11	[14],15,16	[10],11,12	
10,11	12,13	13,14	17,20	9,[12],13	10,12
15,17	13,14	30,30.2	14,15,[16]	X,Y	[10],12,[13]
21,[23],24	11,12	7,10,[12]		6,[8],9,[9.3]	8,11
17,[18]	11				

XJ9LB7 — GlobalFiler™

11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24			27.2,33.2	6,9	8,11
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

XK3AU2 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

XLVPX6 — PowerPlex® 5C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24	11,12	7,10		6,9	8,11
17,17	11				

XN688E — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

XQRNJ9 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

XTDVXH — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

Y4R89Y — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

Y8THHZ — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24			27.2,33.2	6,9	8,11
17,17	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

YKWENZ — GlobalFiler™ — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

YMKTCB — GlobalFiler™ — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24			27.2,33.2	6,9	8,11
17	11			2	

YZACJ8 — Investigator® 24plex QS — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24			27.2,33.2	6,9	8,11
17,17	11				

ZEQ369 — PowerPlex® Fusion — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
17	11				

ZGE424 — PowerPlex® Fusion 5C — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11,11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24	11,12	7,10		6,9	8,11
17,17	11				

ZGUXNB — PowerPlex® Fusion 5C — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
17	11				

ZJ3HPD — PowerPlex® Fusion — 3sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,17.3	17,21	11	15,16	11,12	
10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12
21,24	11,12	7,10		6,9	8,11
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

ZMFFXZ GlobalFiler™					
11,17.3	17,21	11,11	15,16	11,12	
3sp 10,11	12,13	13,14	17,20	9,13	10,12
15,17	13,14	30,30.2	14,15	X,Y	12,12
21,24			27.2,33.2	6,9	8,11
17,17	11			2	
ZNWCPZ GlobalFiler™ (STRmix)					
11,17.3	[16],17,[20,21]	11	[14],15,16,[18]	[10],11,12	
3sp [9],10,11	12,13,[14]	13,14	17,20	[8],9,[12],13	10,12
15,[16],17	13,14	30,[30.2]	14,15,[16]	X,Y	12
21,[23],24			27.2,33.2	6,[8],9,[9.3]	8,11
17	11			2	
ZZ6M7F Identifiler® Plus					
	17,21		15,16	11,12	
3sp 10,11	12,13			9,13	10,12
15,17	13,14	30,30.2		X,Y	12,12
21,24				6,9	8,11
17,17					

TABLE 1

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

Item 4 - STR Results

27AE2D — PowerPlex® Fusion

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18	NR				

27AFMB — GlobalFiler™

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	No Results			No Results	

2BVMRV — PowerPlex® Fusion

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

2DRGQ8 — GlobalFiler™

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

2G6MHV — PowerPlex® Fusion 6C

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

2L29BJ — PowerPlex® Fusion 5C

15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

2L6B7A — PowerPlex® Fusion 5c

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

TABLE 1

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

Item 4 - STR Results

2LG6NV GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

Item: 4

39N3H9 PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

Item: 4

3C9H4G GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

Item: 4

3MBHZA PowerPlex® 21, PowerPlex®-ESX-17

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	12,13
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

Item: 4

43YFEA PowerPlex® CS7, Fusion, Verifiler Plus, NGM SElect

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	12,13
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

Item: 4

4DW8TZ PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

Item: 4

4ZDZW8 PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

Item: 4

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

623PUT — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

Item: 4

648GM8 — PowerPlex® 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

Item: 4

68CDLW — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

Item: 4

6BAWPG — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

Item: 4

6GFXZ4 — Identifiler® Plus

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,20		14,18	10,12	
9,10	12,14			8,12	12,13
16,17	14,15	28,32.2		X,X	10,13
23,24				8,9.3	8,11
16,18					

Item: 4

6KWX46 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NR			NR	

Item: 4

6PNRRB — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18	ND	ND	ND		

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

WebCode / Item						
6RXAZ2	Investigator® 24plex					
	15,17.3	16,20	11,11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
6U26J6	GlobalFiler™					
	15,17.3	16,20	11,11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	NR			NR	
722GJ9	PowerPlex® Fusion 5C					
	15,17.3	16,20	11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18	NR				
788D39	PowerPlex® Fusion					
	15,17.3	16,20	11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18	NR				
7B8WAT	GlobalFiler™					
	15,17.3	16,20	11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
7HM32D	PowerPlex® 16 HS					
				14,18	10,12	
4	9,10	12,14			8,12	12,13
	16,17		28,32.2		X,X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					
7PLU72	Investigator® 24plex					
	15,17.3	16,20	11,11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

TABLE 1

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

Item 4 - STR Results

7XW64R — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18	No Results				

Item: 4

8JR9KP — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18	NR				

Item: 4

8MXAMV — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

Item: 4

8UH9GA — GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

Item: 4

94VEKB — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

Item: 4

94X4N9 — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

Item: 4

9CEKJ4 — Identifiler® Plus

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,20		14,18	10,12	
9,10	12,14			8,12	12,13
16,17	14,15	28,32.2		X,X	10,13
23,24				8,9.3	8,11
16,18					

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

9WXZ4W — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

A3JYQA — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

A7Y48W — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

ADYU4N — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

AHDYQ3 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

AJ6PMN — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

AKZG3W — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

TABLE 1

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

Item 4 - STR Results

ARL22P — GlobalFiler™ — Item 4

D1S1656 / ...					
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NR			NR	

AU6Q8Z — PowerPlex® Fusion — Item 4

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

AWWK9B — GlobalFiler™ — Item 4

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

B4CMV4 — GlobalFiler™ — Item 4

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

BAXAEV — PowerPlex® Fusion 6C — Item 4

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

BBUN2M — PowerPlex® Fusion 6C — Item 4

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X,X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

BC43F2 — PowerPlex® Fusion — Item 4

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

TABLE 1

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

Item 4 - STR Results

BDXJJ6 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

BGYUQJ — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

BH86K3 — PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

BK2T3X — PowerPlex® 21 (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20		14,18	10,12	12,13
9,10	12,14		20,23	8,12	12,13
16,17	14,15	28,32.2		X,X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

BMNAEQ — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

BQWLM4 — GlobalFiler™ (GeneMapper ID-X v.1.5)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

BRGCHQ — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

TABLE 1

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

Item 4 - STR Results

BRV39L — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

C4NCHV — Investigator® 24plex QS

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

C6HZ2Q — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

C9WQXJ — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

CFJXVY — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

CNRXBZ — PowerPlex® Fusion, ESX17, VERIFILER Plus

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	12,13
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18	NA			NA	

CXHHNZ — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

TABLE 1

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

Item 4 - STR Results

D4V3UG	PowerPlex® Fusion					
	15,17.3	16,20	11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18	NR				
D8JV8R	GlobalFiler™					
	15,17.3	16,20	11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
DTFA4L	Investigator® 24plex QS					
	15,17.3	16,20	11,11	14,18	10,12	N/A
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	N/A	N/A	30.2,31.2	8,9.3	8,11
	16,18	N/A	N/A	N/A	N/A	
DTKDC8	PowerPlex® Fusion 5C					
	15,17.3	16,20	11,11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					
E2R8PR	GlobalFiler™					
	15,17.3	16,20	11,11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	--			--	
E4DGRK	GlobalFiler™					
	15,17.3	16,20	11,11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	NR			NR	
E688XZ	PowerPlex® Fusion 6C (STRmix)					
	15,17.3	16,20	11,11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18					

TABLE 1

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

Item 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
EEZFMW	GlobalFiler™					
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	NM			NM	
EQ74GT	PowerPlex® Fusion 5C					
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					
ETFGG3	PowerPlex® CS7, Verifiler, Investigator HDplex, SureID 27comp					
4	15,17.3	16,20	11,11	14,18	10,12	12,13
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18					
EUBYH4	GlobalFiler™					
4	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
EVHB4J	PowerPlex® Fusion					
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					
EZJU8Q	PowerPlex® Fusion					
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					
F3JT9P	PowerPlex® Fusion 6C					
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18					

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 4 - STR Results

F6MNRT — 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
4	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18					

F72K8Q — 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
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

F8X49R — 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
4	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	--			--	

FEUGRK — Investigator® 24plex QS, FLex Plex 27

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	15,17.3	16,20	11,11	14,18	10,12	12,13
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	N/A	12,13	30.2,31.2	8,9.3	8,11
	16,18	N/A	N/A	N/A	N/A	

FKFCTN — 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	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18	NR				

FNHNTH — 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
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

FWQHLP — 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
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

TABLE 1

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

Item 4 - STR Results

G2LZTW — PowerPlex® Fusion

4	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18	NR				

GDDNNW — GlobalFiler™

4						
	15,17.3	16,20	11	14,18	10,12	-
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	-	-	30.2,31.2	8,9.3	8,11
	16,18	-	-	-	-	

GYT8FY — GlobalFiler™

4						
	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

H7UEHR — PowerPlex® Fusion 5C

4						
	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

HENTVT — Investigator® 24plex

4						
	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

HJVF9V — PowerPlex® Fusion 5C

4						
	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18	NR				

HQYV8V

4						
	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

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 4 - STR Results

HT6HGU   PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

HX3A3T

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	NR			NR	

J3NXJF   PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

J9ATJJ   Investigator® 24plex QS

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11,11	14,18	10,12	N/A
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	N/A	N/A	30.2,31.2	8,9.3	8,11
	16,18	N/A	N/A	N/A	N/A	

JCHMXY   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

JG92KK   PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

JKQL3U   PowerPlex® 21, Fusion, ESX17

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	12,13
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18					

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 4 - STR Results

JWMXNZ — GlobalFiler™ — Item 4

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

K4FV4V — GlobalFiler™ — Item 4

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

K6VPTP — GlobalFiler™ — Item 4

15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NR			NR	

K7MD3Q — GlobalFiler™ — Item 4

15,17.3	16,20	11	14,18	10,12	-
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X,X	10,13
23,24	-	-	30.2,31.2	8,9.3	8,11
16,18	NM	-	-	NM	

KJBDLC — PowerPlex® Fusion — Item 4

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

KLGACU — GlobalFiler™ — Item 4

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

KLXXKV — GlobalFiler™ — Item 4

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NR			NR	

TABLE 1

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

Item 4 - STR Results

KQTM8U	PowerPlex® Fusion					
	15,17.3	16,20	11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18	NR				
KT262J	PowerPlex® Fusion 6C					
	15,17.3	16,20	11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18					
KWG3HZ	GlobalFiler™					
	15,17.3	16,20	11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
KYLTMU	GlobalFiler™ (STRmix)					
	15,17.3	16,20	11,11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
L8C69U	GlobalFiler™					
	15,17.3	16,20	11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	No Results			No Results	
LFRM8V	GlobalFiler™					
	15,17.3	16,20	11,11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					
LLT2NQ	GlobalFiler™					
	15,17.3	16,20	11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

TABLE 1

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

Item 4 - STR Results

LQ39WF — 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
15,17.3	16,20	11,11	14,18	10,12	N/A
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	N/A	N/A	30.2,31.2	8,9.3	8,11
16,18	N/A	N/A	N/A	N/A	

LRLZ8R — Identifiler® Plus — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,20		14,18	10,12	
9,10	12,14			8,12	12,13
16,17	14,15	28,32.2		X,X	10,13
23,24				8,9.3	8,11
16,18					

LTDQXJ — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

LU8EFE — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

LVKC3R — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NM			NM	

LWE6XB — PowerPlex® Fusion 6C — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

LWUFHA — PowerPlex® Fusion — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

TABLE 1

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

Item 4 - STR Results

LXQYFW — GlobalFiler™

15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

Item: 4

M62MPN — GlobalFiler™

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

Item: 4

MB8LA8 — GlobalFiler™

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

Item: 4

ME9P2U — GlobalFiler™ (STRmix)

15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

Item: 4

MEQ9VM — GlobalFiler™

15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NR			NR	

Item: 4

MEVZXG — PowerPlex® Fusion

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

Item: 4

MJK9AH — PowerPlex® Fusion 6C

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

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

MKZZBR GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

MMJJ6H PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18					

MND8ND GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11,11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	No Result			No Result	

MP8XUR PowerPlex® Fusion 6C (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11,11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18					

MPQALQ PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11,11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18	ND	ND	ND		

N7VQUJ Investigator® 24plex

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11,11	14,18	10,12	
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

N9UX7E Investigator® 24plex QS

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	15,17.3	16,20	11,11	14,18	10,12	N/A
4	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	N/A	N/A	30.2,31.2	8,9.3	8,11
	16,18	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 4 - STR Results

NGCFTN — GlobalFiler™ (STRmix)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	No results			No results	

NJWWVM — PowerPlex® Fusion

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

NT67ML — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

P83Z9E — PowerPlex® Fusion 5C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

PAAMYK — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	NR			NR	

PDQHNB — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

PFTLED — PowerPlex® Fusion

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

TABLE 1

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

Item 4 - STR Results

PKADKT   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	-			-	

PWJTMR   GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	No Results			No Results	

Q2CPYG   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	--			--	

Q3677Q   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

Q6BQR7   PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18					

Q8HJTC   PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

Q9DY8U   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

TABLE 1

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

Item 4 - STR Results

QME4PM — GlobalFiler™ (TrueAllele)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

QRNG8L — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	NM			NM	

QX9GKD — PowerPlex® Fusion 5C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

QY6VAQ — Investigator® 24plex (Genemapper)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

R2PY32 — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

R4UUY7 — PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18					

R8DJ7G — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

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 4 - STR Results

RBBZHB — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

RC6N27 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

RF6WAM — Identifiler® Plus

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4		16,20		14,18	10,12	
	9,10	12,14			8,12	12,13
	16,17	14,15	28,32.2		X,X	10,13
	23,24				8,9.3	8,11
	16,18					

RHDELK — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	NM			NM	

RJRGC7 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

RKGCR8 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	NR			NR	

RQAEV7 — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
	16,18					

TABLE 1

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

Item 4 - STR Results

RWVWZM — GlobalFiler™ (STRmix) — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

T66VL6 — PowerPlex® Fusion 6C — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

TC7B77 — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NR			NR	

TD2QKN — GlobalFiler™ (STRmix) — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

TXNMVM — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NR			NR	

U9GTEP — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

UFZQW6 — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

TABLE 1

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

Item 4 - STR Results

UP92LJ — GlobalFiler™ (STRmix) — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
9,10	12,14	13,14	20,23	8,12	12,13
D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
16,17	14,15	28,32.2	16	X	10,13
FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
23,24			30.2,31.2	8,9.3	8,11
vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	
16,18	NR			NR	

UVWFYA — PowerPlex® Fusion — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
9,10	12,14	13,14	20,23	8,12	12,13
D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
16,17	14,15	28,32.2	16	X	10,13
FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
23,24	11,13	12,13		8,9.3	8,11
vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	
16,18					

UYVRUA — PowerPlex® Fusion 5C — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
9,10	12,14	13,14	20,23	8,12	12,13
D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
16,17	14,15	28,32.2	16	X	10,13
FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
23,24	11,13	12,13		8,9.3	8,11
vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	
16,18					

V8BNQK — PowerPlex® Fusion 6C — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
9,10	12,14	13,14	20,23	8,12	12,13
D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
16,17	14,15	28,32.2	16,16	X,X	10,13
FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	
16,18					

VD9MMB — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
9,10	12,14	13,14	20,23	8,12	12,13
D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
16,17	14,15	28,32.2	16,16	X,X	10,13
FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
23,24			30.2,31.2	8,9.3	8,11
vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	
16,18					

VGQCZF — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
9,10	12,14	13,14	20,23	8,12	12,13
D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
16,17	14,15	28,32.2	16	X	10,13
FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
23,24			30.2,31.2	8,9.3	8,11
vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	
16,18					

VH89TF — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
D7S820	**D8S1179**	**D10S1248**	**D12S391**	**D13S317**	**D16S539**
9,10	12,14	13,14	20,23	8,12	12,13
D18S51	**D19S433**	**D21S11**	**D22S1045**	**Amelogenin**	**CSF1PO**
16,17	14,15	28,32.2	16,16	X,X	10,13
FGA	**Penta D**	**Penta E**	**SE33**	**TH01**	**TPOX**
23,24			30.2,31.2	8,9.3	8,11
vWA	**DYS391**	**DYS570**	**DYS576**	**Y Indel**	
16,18	NR			NR	

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 4 - STR Results

VJFD9P — PowerPlex® Fusion 5C

Item 4					
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

VNM4EA — PowerPlex® Fusion

Item 4					
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

VR8WKC — Investigator® 24plex QS

Item 4					
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

VXCXK7 — GlobalFiler™

Item 4					
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

W2FNRL — GlobalFiler™

Item 4					
15,17.2	16,20	11,11	14,18	10,12	-
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	-	-	30.2,31.2	8,9.3	8,11
16,18	-	-	-	-	

W37LNC — GlobalFiler™

Item 4					
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

W99T6Z — GlobalFiler™

Item 4					
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

TABLE 1

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

Item 4 - STR Results

WAKV7L — GlobalFiler™

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D	D2S441 / D10S1248 / D21S11 / Penta E	D3S1358 / D12S391 / D22S1045 / SE33	D5S818 / D13S317 / Amelogenin / TH01	D6S1043 / D16S539 / CSF1PO / TPOX
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

WEXBKW — GlobalFiler™

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

WP2VY7 — Investigator® 24plex

15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

WYH8Y3 — GlobalFiler™

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

X7FP3Z — PowerPlex® Fusion 6C

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

X7L92G — GlobalFiler™ (STRmix)

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

XDZMXE — GlobalFiler™

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NM			NM	

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

XG2TAY — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13	30.2,31.2	8,9.3	8,11
16,18					

XHX7XR — Identifiler®

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,20		14,18	10,12	
9,10	12,14			8,12	12,13
16,17	14,15	28,32.2		X,X	10,13
23,24				8,9.3	8,11
16,18					

XJ2V6Z — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

XJ9LB7 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

XK3AU2 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

XLVPX6 — PowerPlex® 5C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24	11,13	12,13		8,9.3	8,11
16,18					

XN688E — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

TABLE 1

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

Item 4 - STR Results

XQRNJ9 — GlobalFiler™

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

4

XTDVXH — GlobalFiler™

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

4

Y4R89Y — GlobalFiler™

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

4

Y8THHZ — GlobalFiler™

15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18	NR			NR	

4

YKWENZ — GlobalFiler™

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

4

YMKTCB — GlobalFiler™

15,17.3	16,20	11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

4

YZACJ8 — Investigator® 24plex QS

15,17.3	16,20	11,11	14,18	10,12	
9,10	12,14	13,14	20,23	8,12	12,13
16,17	14,15	28,32.2	16,16	X,X	10,13
23,24			30.2,31.2	8,9.3	8,11
16,18					

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

ZEQ369 — PowerPlex® Fusion

4						
	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

ZGE424 — PowerPlex® Fusion 5C

4						
	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

ZGUXNB — PowerPlex® Fusion 5C

4						
	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18					

ZJ3HPD — PowerPlex® Fusion

4						
	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24	11,13	12,13		8,9.3	8,11
	16,18	NR				

ZMFFXZ — GlobalFiler™

4						
	15,17.3	16,20	11,11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18	NR			NR	

ZNWCPZ — GlobalFiler™

4						
	15,17.3	16,20	11	14,18	10,12	
	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16	X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

ZW7CAF — NGM SElect

4						
	15,17.3	16,20	11	14,18		
		12,14	13,14	20,23		12,13
	16,17	14,15	28,32.2	16	X	
	23,24			30.2,31.2	8,9.3	
	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

ZZ6M7F	Identifiler® Plus					
		16,20		14,18	10,12	
4	9,10	12,14			8,12	12,13
	16,17	14,15	28,32.2		X,X	10,13
	23,24				8,9.3	8,11
	16,18					

TABLE 1

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

Item 4e - STR Results

8YUJN7	NGM SElect					
	15,17.3	16,20	11,11	14,18		
4e		12,14	13,14	20,23		12,13
	16,17	14,15	28,32.2	16,16	X,X	
	23,24			30.2,31.2	8,9.3	
	16,18					

9V3G3V	GlobalFiler™					
	15,17.3	16,20	11,11	14,18	10,12	
4e	9,10	12,14	13,14	20,23	8,12	12,13
	16,17	14,15	28,32.2	16,16	X,X	10,13
	23,24			30.2,31.2	8,9.3	8,11
	16,18					

TABLE 1

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

Item 4sp - STR Results

8YUJN7   NGM SElect

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp		16,F	11,F	14,F		
		12,F	[13],14	20,F		12,13
	16,F	14,15	28,32.2	16,F	X,F	
					8,9.3	

9V3G3V   GlobalFiler™

4sp						

YSTR Amplification Kit(s) & Results

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

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
ARL22P — Yfiler™ Plus									
1	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
MJMXEE — Yfiler™ Plus									
1									
RTWTKG — Yfiler™									
1		No Result	No Result	No Result	No Result	No Result	No Result	No Result	No Result
	No Result	No Result	No Result	No Result		No Result	No Result		
							No Result		No Result
TNYWBF — Yfiler™									
1		--	--	--	--	--	--	--	--
	--	--	--	--		--	--		
							--		--

TABLE 2

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

Item 2 - YSTR Results

WebCode / Item									
27AE2D	Yfiler™ Plus								
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
2BVMRV	Yfiler™								
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		
							23		12
2L6B7A	Yfiler™								
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		
							23		12
2LG6NV	Yfiler™ Plus								
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
3MBHZA	PowerPlex® Y 23								
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		22
		12	12	22	17		23	13	12
43YFEA	Yfiler™ Plus, PowerPlex® Y 23								
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12	12	22	17	22	23	13	12
4DW8TZ	Yfiler™								
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		
							23		12
623PUT	Yfiler™ Plus								
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
68CDLW	Yfiler™ Plus								
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
6GFXZ4	PowerPlex® Y 23								
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		22
		12	12	22	17		23	13	12
6KWX46	Yfiler™ Plus								
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
722GJ9	Yfiler™ Plus								
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12

TABLE 2

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

Item 2 - YSTR Results

788D39 — Yfiler™ Plus — Item 2

Locus triplet	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
Row 1	35,38	13	17,19	13	30	24	9	11	13
Row 2	14	10	12	20	32	15	16	9	22
Row 3	40	12		22	17	22	23		12

7B8WAT — Yfiler™ Plus — Item 2

Row 1	35,38	13	17,19	13	30	24	9	11	13
Row 2	14	10	12	20	32	15	16	9	22
Row 3	40	12		22	17	22	23		12

7HM32D — PowerPlex® Y 23 — Item 2

Row 1		13	17,19	13	30	24	9	11	13
Row 2	14	10	12	20		15	16		22
Row 3	12	12		22	17		23	13	12

7XW64R — Yfiler™ — Item 2

Row 1		13	17,19	13	30	24	9	11	13
Row 2	14	10	12	20		15	16		
Row 3							23		12

8JR9KP — Yfiler™ — Item 2

Row 1		13	17,19	13	30	24	9	11	13
Row 2	14	10	12	20		15	16		
Row 3							23		12

8YUJN7 — PowerPlex® Y 23 — Item 2

Row 1		13	17,19	13	30	24	9	11	13
Row 2	14	10	12	20		15	16		22
Row 3	12	12		22	17		23	13	12

9CEKJ4 — Yfiler™ — Item 2

Row 1		13	17,19	13	30	24	9	11	13
Row 2	14	10	12	20		15	16		
Row 3							23		12

AKZG3W — Yfiler™ Plus — Item 2

Row 1	35,38	13	17,19	13	30	24	9	11	13
Row 2	14	10	12	20	32	15	16	9	22
Row 3	40	12		22	17	22	23		12

ARL22P — Yfiler™ Plus — Item 2

Row 1	35,38	13	17,19	13	30	24	9	11	13
Row 2	14	10	12	20	32	15	16	9	22
Row 3	40	12		22	17	22	23		12

BGYUQJ — Yfiler™ Plus — Item 2

Row 1	35,38	13	17,19	13	30	24	9	11	13
Row 2	14	10	12	20	32	15	16	9	22
Row 3	40	12		22	17	22	23		12

BH86K3 — Yfiler™ Plus — Item 2

Row 1	35,38	13	17,19	13	30	24	9	11	13
Row 2	14	10	12	20	32	15	16	9	22
Row 3	40	12		22	17	22	23		12

BRV39L — Yfiler™ Plus — Item 2

Row 1	35,38	13	17,19	13	30	24	9	11	13
Row 2	14	10	12	20	32	15	16	9	22
Row 3	40	12		22	17	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 2 - YSTR Results

C6HZ2Q — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		22
	12	12	22	17			23	13	12

C9WQXJ — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		
							23		12

D4V3UG — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		
							23		12

D8JV8R — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12

E4DGRK — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12

EEZFMW — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		
							23		12

ETFGG3 — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12

EUBYH4 — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		22
	12	12	22	17			23	13	12

EVHB4J — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		
							23		12

F6MNRT — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		22
	12	12	22	17			23	13	12

F72K8Q — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12

FKFCTN — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		
							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 2 - YSTR Results

FNHNTH — Yfiler™ Plus — Item 2

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
35,38	13	17,19	13	30	24	9	11	13
14	10	12	20	32	15	16	9	22
40	12		22	17	22	23		12

FWQHLP — Yfiler™ Plus — Item 2

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
35,38	13	17,19	13	30	24	9	11	13
14	10	12	20	32	15	16	9	22
40	12		22	17	22	23		12

FYGKQD — Yfiler™ Plus — Item 2

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
35,38	13	17,19	13	30	24	9	11	13
14	10	12	20	32	15	16	9	22
40	12		22	17	22	23		12

G2LZTW — Yfiler™ Plus — Item 2

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
35,38	13	17,19	13	30	24	9	11	13
14	10	12	20	32	15	16	9	22
40	12		22	17	22	23		12

GDDNNW — PowerPlex® Y 23 — Item 2

DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
-	13	17,19	13	30	24	9	11	13
14	10	12	20	-	15	16	-	22
-	12	12	22	17	-	23	13	12

GYT8FY — Yfiler™ — Item 2

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
35,38	13	17,19	13	30	24	9	11	13
14	10	12	20	32	15	16	9	22
40	12		22	17	22	23		12

HJVF9V — Yfiler™ Plus — Item 2

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
35,38	13	17,19	13	30	24	9	11	13
14	10	12	20	32	15	16	9	22
40	12		22	17	22	23		12

J3NXJF — Yfiler™ — Item 2

DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
	13	17,19	13	30	24	9	11	13
14	10	12	20		15	16		
						23		12

JCHMXY — PowerPlex® Y — Item 2

DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
	13	17,19	13	30	24	9	11	13
14	10	12	20		15	16		22
	12	12	22	17		23	13	12

JG92KK — PowerPlex® Y 23 — Item 2

DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
	13	17,19	13	30	24	9	11	13
14	10	12	20		15	16		22
	12	12	22	17		23	13	12

JKQL3U — PowerPlex® Y 23 — Item 2

DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
	13	17,19	13	30	24	9	11	13
14	10	12	20		15	16		22
	12	12	22	17		23	13	12

K6VPTP — Yfiler™ Plus — Item 2

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
35,38	13	17,19	13	30	24	9	11	13
14	10	12	20	32	15	16	9	22
40	12		22	17	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 2 - YSTR Results

Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
K7MD3Q Yfiler™									
	-	13	17,19	13	30	24	9	11	13
2	14	10	12	20	-	15	16	-	-
	-	-	-	-	-	-	23	-	12
KJBDLC Yfiler™									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		
							23		12
KQTM8U Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
KWG3HZ Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
KYLTMU Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
LFRM8V PowerPlex® Y 23									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		22
		12	12	22	17		23	13	12
LLT2NQ Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
LRLZ8R Yfiler™									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		
							23		12
LTDQXJ Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
LVKC3R Yfiler™									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		
							23		12
LWUFHA Yfiler™									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		
							23		12
LXQYFW PowerPlex® Y 23									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		22
		12	12	22	17		23	13	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 2 - YSTR Results

Item	DYF387S1/DYS437/DYS518	DYS19/DYS438/DYS533	DYS385/DYS439/DYS549	DYS389-I/DYS448/DYS570	DYS389-II/DYS449/DYS576	DYS390/DYS456/DYS627	DYS391/DYS458/DYS635	DYS392/DYS460/DYS643	DYS393/DYS481/Y GATA H4
MB8LA8 — Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
MJMXEE — Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
MND8ND — Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
NT67ML — PowerPlex® Y 23									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		22
		12	12	22	17		23	13	12
PB4BHG — Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
PKADKT — PowerPlex® Y 23									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		22
		12	12	22	17		23	13	12
Q3677Q — PowerPlex® Y 23									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		22
		12	12	22	17		23	13	12
Q9DY8U — Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
QRNG8L — Yfiler™									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		
							23		12
QX9GKD — Yfiler™, PowerPlex® Y 23									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		22
		12	12	22	17		23	13	12
QY6VAQ — GTY DETECTOR 29									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12	12	22	17	22	23	13	12
R2PY32 — Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	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 2 - YSTR Results

Item / WebCode	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
R8DJ7G — PowerPlex® Y 23									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		22
		12	12	22	17		23	13	12
RC6N27 — Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
RF6WAM — PowerPlex® Y 23									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		22
		12	12	22	17		23	13	12
RHDELK — Yfiler™									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		
							23		12
RJRGC7 — Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
RKGCR8 — Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
RTWTKG — Yfiler™									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		
							23		12
TC7B77 — Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
TD2QKN — PowerPlex® Y 23									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		22
		12	12	22	17		23	13	12
TNYWBF — Yfiler™									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		
							23		12
TXNMVM — Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
TZT8K9 — Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	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 2 - YSTR Results

WebCode / Item									
U9GTEP — Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
UP92LJ — Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
V8BNQK — PowerPlex® Y 23									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		22
		12	12	22	17		23	13	12
VGQCZF — Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
VNM4EA — Yfiler™									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		
							23		12
VXCXK7 — Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
W2FNRL									
	-	13	17,19	13	30	24	9	11	13
2	14	10	12	20	-	15	16	-	22
	-	12	12	22	17	-	23	13	12
W37LNC — PowerPlex® Y 23									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		22
		12	12	22	17		23	13	12
W99T6Z — Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
WAKV7L — PowerPlex® Y 23									
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		22
		12	12	22	17		23	13	12
WEXBKW — Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
WYH8Y3 — Yfiler™ Plus									
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	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 2 - YSTR Results

WebCode / Item									
X7L92G	Yfiler™ Plus								
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
XDZMXE	Yfiler™								
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		
							23		12
XJ2V6Z	Yfiler™								
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		
							23		12
XK3AU2	Yfiler™ Plus								
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
XQRNJ9	Yfiler™ Plus								
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
Y4R89Y	Yfiler™ Plus								
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
Y8THHZ	Yfiler™ Plus								
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
YKWENZ	Yfiler™ Plus								
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
YMKTCB	PowerPlex® Y 23								
		13	17,19	13	30	24	9	11	13
2	14	10	12	20		15	16		22
		12	12	22	17		23	13	12
ZJ3HPD	Yfiler™ Plus								
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	22	23		12
ZMFFXZ	Yfiler™ Plus								
	35,38	13	17,19	13	30	24	9	11	13
2	14	10	12	20	32	15	16	9	22
	40	12		22	17	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 3 - YSTR Results

EUBYH4 — PowerPlex® Y 23

Item	c1	c2	c3	c4	c5	c6	c7	c8	c9
		14	11,13	15	31	23	11	14	14
3	14	10	10	19		14	18		21
		11	12	19	16		22	11	12

F6MNRT — PowerPlex® Y 23

		14	11,13	15	31	23	11	14	14
3	14	10	10	19		14	18		21
		11	12	19	16		22	11	12

JCHMXY — PowerPlex® Y

		14	11,13	15	31	23	11	14	14
3	14	10	10	19		14	18		21
		11	12	19	16		22	11	12

LFRM8V — PowerPlex® Y 23

		14	11,13	15	31	23	11	14	14
3	14	10	10	19		14	18		21
		11	12	19	16		22	11	12

LXQYFW — PowerPlex® Y 23

		14	11,13	15	31	23	11	14	14
3	14	10	10	19		14	18		21
		11	12	19	16		22	11	12

PKADKT — PowerPlex® Y 23

		14	11,13	15	31	23	11	14	14
3	14	10	10	19		14	18		21
		11	12	19	16		22	11	12

Q3677Q — PowerPlex® Y 23

		14	11,13	15	31	23	11	14	14
3	14	10	10	19		14	18		21
		11	12	19	16		22	11	12

QY6VAQ — GTY DETECTOR 29

	35,35	14	11,13	15	31	23	11	14	14
3	14	10	10	19	29	14	18	11	21
	38	11	12	19	16	21	22	11	12

TD2QKN — PowerPlex® Y 23

		14	11,13	15	31	23	11	14	14
3	14	10	10	19		14	18		21
		11	12	19	16		22	11	12

W2FNRL — PowerPlex® Y

	-	14	11,13	15	31	23	11	14	14
3	14	10	10	19	-	14	18	-	21
	-	11	12	19	16	-	22	11	12

WAKV7L — PowerPlex® Y 23

		14	11,13	15	31	23	11	14	14
3	14	10	10	19		14	18		21
		11	12	19	16		22	11	12

WP2VY7

	35	14	11,13	15	31	23	11	14	14
3	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		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

27AE2D — Yfiler™ Plus

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35	14	11,13	15	31	23	11	14	14
14	10	10	19	29	14	18	11	21
38	11		19	16	21	22		12

2BVMRV — Yfiler™

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	14	11,13	15	31	23	11	14	14
14	10	10	19		14	18		
						22		12

2L6B7A — Yfiler™

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	14	11,13	15	31	23	11	14	14
14	10	10	19		14	18		
						22		12

2LG6NV — Yfiler™ Plus

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35	14	11,13	15	31	23	11	14	14
14	10	10	19	29	14	18	11	21
38	11		19	16	21	22		12

3MBHZA — PowerPlex® Y 23

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	14	11,13	15	31	23	11	14	14
14	10	10	19		14	18		21
	11	12	19	16		22	11	12

43YFEA — Yfiler™ Plus, PowerPlex® Y 23

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393

4DW8TZ — Yfiler™

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	14	11,13	15	31	23	11	14	14
14	10	10	19		14	18		
						22		12

623PUT — Yfiler™ Plus

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35	14	11,13	15	31	23	11	14	14
14	10	10	19	29	14	18	11	21
38	11		19	16	21	22		12

68CDLW — Yfiler™ Plus

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393

6GFXZ4 — PowerPlex® Y 23

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A		N/A	N/A		N/A
	N/A	N/A	N/A	N/A		N/A	N/A	N/A

6KWX46 — Yfiler™ Plus

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35,35	14	11,13	15	31	23	11	14	14
14	10	10	19	29	14	18	11	21
38	11		19	16	21	22		12

722GJ9 — Yfiler™ Plus

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35	14	11,13	15	31	23	11	14	14
14	10	10	19	29	14	18	11	21
38	11		19	16	21	22		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	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
788D39	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
7B8WAT	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
7HM32D	PowerPlex® Y 23								
3e									
7XW64R	Yfiler™								
		14	11,13	15	31	23	11	14	14
3e	14	10	10	19		14	18		
							22		12
8JR9KP	Yfiler™								
		14	11,13	15	31	23	11	14	14
3e	14	10	10	19		14	18		
							22		12
8YUJN7	PowerPlex® Y 23								
		14	11,13	15	31	23	11	14	14
3e	14	10	10	19		14	18		21
		11	12	19	16		22	11	[11],12
9CEKJ4	Yfiler™								
		14	11,13	15	31	23	11	14	14
3e	14	10	10	19		14	18		
							22		12
AKZG3W	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
ARL22P	Yfiler™ Plus								
	35,35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
BGYUQJ	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
BH86K3	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
BRV39L	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		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 3e - YSTR Results

C6HZ2Q	PowerPlex® Y 23								
		14	11,13	15	31	23	11	14	14
3e	14	10	10	19		14	18		21
	11	12	19	16			22	11	12
C9WQXJ	Yfiler™								
		14	11,13	15	31	23	11	14	14
3e	14	10	10	19		14	18		
							22		12
D4V3UG	Yfiler™								
3e									
D8JV8R	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
E4DGRK	Yfiler™ Plus								
	35,35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
EEZFMW	Yfiler™								
		14	11,13	15	31	23	11	14	14
3e	14	10	10	19		14	18		
							22		12
ETFGG3	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
EVHB4J	Yfiler™								
		14	11,13	15	31	23	11	14	14
3e	14	10	10	19		14	18		
							22		12
F72K8Q	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
FKFCTN	Yfiler™								
		14	11,13	15	31	23	11	14	14
3e	14	10	10	19		14	18		
							22		12
FNHNTH	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
FWQHLP	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		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

G2LZTW — Yfiler™ Plus

Item									
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12

GDDNNW — PowerPlex® Y 23

Item									
	-	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	-	14	18	-	21
	-	11	12	19	16	-	22	11	12

HJVF9V — Yfiler™ Plus

Item									
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12

J3NXJF — Yfiler™

Item									
		14	11,13	15	31	23	11	14	14
3e	14	10	10	19		14	18		
							22		12

JG92KK — PowerPlex® Y 23

Item									
		14	11,13	15	31	23	11	14	14
3e	14	10	10	19		14	18		21
		11	12	19	16		22	11	12

JKQL3U — PowerPlex® Y 23

Item									
		14	11,13	15	31	23	11	14	14
3e	14	10	10	19		14	18		21
		11	12	19	16		22	11	12

K6VPTP — Yfiler™ Plus

Item									
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12

K7MD3Q — Yfiler™

Item									
	-	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	-	14	18	-	-
	-	-	-	-	-	-	22	-	12

KJBDLC — Yfiler™

Item									
		14	11,13	15	31	23	11	14	14
3e	14	10	10	19		14	18		
							22		12

KQTM8U — Yfiler™ Plus

Item									
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12

KWG3HZ — Yfiler™ Plus

Item									
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12

KYLTMU — Yfiler™ Plus

Item									
3e									

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 / WebCode	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
LRLZ8R Yfiler™									
		14	11,13	15	31	23	11	14	14
3e	14	10	10	19		14	18		
							22		12
LTDQXJ Yfiler™ Plus									
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
LVKC3R Yfiler™									
		14	11,13	15	31	23	11	14	14
3e	14	10	10	19		14	18		
							22		12
LWUFHA Yfiler™									
		14	11,13	15	31	23	11	14	14
3e	14	10	10	19		14	18		
							22		12
MB8LA8 Yfiler™ Plus									
3e									
MJMXEE Yfiler™ Plus									
			11	15		23		14	
3e		10		19	29	14	18	11	
					16		22		
MND8ND Yfiler™ Plus									
	35,35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
NT67ML PowerPlex® Y 23									
3e									
PB4BHG Yfiler™ Plus									
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
Q9DY8U Yfiler™ Plus									
3e									
QRNG8L Yfiler™									
		14	11,13	15	31	23	11	14	14
3e	14	10	10	19		14	18		
							22		12
QX9GKD PowerPlex® Y 23									
		14	11,13	15	31	23	11	14	14
3e	14	10	10	19		14	18		21
		11	12	19	16		22	11	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

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
R2PY32 — Yfiler™ Plus									
3e	35	14	11,13	15	31	23	11	14	14
	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
R8DJ7G — PowerPlex® Y 23									
3e		14	11,13	15	31	23	11	14	14
	14	10	10	19		14	18		21
	11	12		19	16		22	11	12
RC6N27 — Yfiler™ Plus									
3e	35	14	11,13	15	31	23	11	14	14
	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
RF6WAM — PowerPlex® Y 23									
3e									
RHDELK — Yfiler™									
3e		14	11,13	15	31	23	11	14	14
	14	10	10	19		14	18		
							22		12
RJRGC7 — Yfiler™ Plus									
3e	35	14	11,13	15	31	23	11	14	14
	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
RKGCR8 — Yfiler™ Plus									
3e	35,35	14	11,13	15	31	23	11	14	14
	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
RTWTKG — Yfiler™									
3e		14	11,13	15	31	23	11	14	14
	14	10	10	19		14	18		
							22		12
TC7B77 — Yfiler™ Plus									
3e	35,35	14	11,13	15	31	23	11	14	14
	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
TNYWBF — Yfiler™									
3e		14	11,13	15	31	23	11	14	14
	14	10	10	19		14	18		
							22		12
TXNMVM — Yfiler™ Plus									
3e	35	14	11,13	15	31	23	11	14	14
	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
TZT8K9 — Yfiler™ Plus									
3e	35	14	11,13	15	31	23	11	14	14
	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		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

U9GTEP Yfiler™ Plus

3e

UP92LJ Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12

V8BNQK PowerPlex® Y 23

3e

VGQCZF Yfiler™ Plus

3e

VNM4EA Yfiler™

3e

VXCXK7 Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12

W37LNC PowerPlex® Y 23

3e

W99T6Z Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12

WEXBKW Yfiler™ Plus

3e

WYH8Y3 Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	35	14	11,13	15	31	23	11	14	14
3e	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12

X7L92G Yfiler™ Plus

3e

XDZMXE Yfiler™

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		14	11,13	15	31	23	11	14	14
3e	14	10	10	19		14	18		
							22		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
XJ2V6Z	Yfiler™		14	11,13	15	31	23	11	14	14
3e		14	10	10	19		14	18		
								22		12
XK3AU2	Yfiler™ Plus	35	14	11,13	15	31	23	11	14	14
3e		14	10	10	19	29	14	18	11	21
		38	11		19	16	21	22		12
XQRNJ9	Yfiler™ Plus	35	14	11,13	15	31	23	11	14	14
3e		14	10	10	19	29	14	18	11	21
		38	11		19	16	21	22		12
Y4R89Y	Yfiler™ Plus	35	14	11,13	15	31	23	11	14	14
3e		14	10	10	19	29	14	18	11	21
		38	11		19	16	21	22		12
Y8THHZ	Yfiler™ Plus	35,35	14	11,13	15	31	23	11	14	14
3e		14	10	10	19	29	14	18	11	21
		38	11		19	16	21	22		12
YKWENZ	Yfiler™ Plus	35	14	11,13	15	31	23	11	14	14
3e		14	10	10	19	29	14	18	11	21
		38	11		19	16	21	22		12
YMKTCB	PowerPlex® Y 23									
3e										
ZJ3HPD	Yfiler™ Plus	35	14	11,13	15	31	23	11	14	14
3e		14	10	10	19	29	14	18	11	21
		38	11		19	16	21	22		12
ZMFFXZ	Yfiler™ Plus	35,35	14	11,13	15	31	23	11	14	14
3e		14	10	10	19	29	14	18	11	21
		38	11		19	16	21	22		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
27AE2D — Yfiler™ Plus									
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
2BVMRV — Yfiler™									
3sp									
2L6B7A — Yfiler™									
		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		
							22		12
2LG6NV — Yfiler™ Plus									
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
3MBHZA — PowerPlex® Y 23									
		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		21
		11	12	19	16		22	11	12
43YFEA — Yfiler™ Plus, PowerPlex® Y 23									
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11	12	19	16	21	22		12
4DW8TZ — Yfiler™									
3sp									
623PUT — Yfiler™ Plus									
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
68CDLW — Yfiler™ Plus									
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
6GFXZ4 — PowerPlex® Y 23									
		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		21
		11	12	19	16		22	11	12
6KWX46 — Yfiler™ Plus									
	35,35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
722GJ9 — Yfiler™ Plus									
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		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
788D39	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
7B8WAT	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
7HM32D	PowerPlex® Y 23								
		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		21
		11	12	19	16		22	11	12
7XW64R	Yfiler™								
3sp									
8JR9KP	Yfiler™								
3sp									
8YUJN7	PowerPlex® Y 23								
		14	11,13	[14],15	[30],31	23	11	14	14
3sp	14	10	10	19		14	18		21
		11	12	19	16		22	11	12
9CEKJ4	Yfiler™								
		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		
							22		12
AKZG3W	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
ARL22P	Yfiler™ Plus								
	35,35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
BGYUQJ	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
BH86K3	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
BRV39L	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12

TABLE 2

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
C6HZ2Q	PowerPlex® Y 23								
		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		21
	11	12	19	16			22	11	12
C9WQXJ	Yfiler™								
3sp									
D4V3UG	Yfiler™								
		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		
							22		12
D8JV8R	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
E4DGRK	Yfiler™ Plus								
	35,35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
EEZFMW	Yfiler™								
		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		
							22		12
ETFGG3	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
EVHB4J	Yfiler™								
3sp									
F72K8Q	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
FKFCTN	Yfiler™								
3sp									
FNHNTH	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
FWQHLP	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		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

WebCode	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
G2LZTW	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
GDDNNW	PowerPlex® Y 23								
	-	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	-	14	18	-	21
	-	11	12	19	16	-	22	11	12
HJVF9V	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
J3NXJF	Yfiler™								
3sp									
JG92KK	PowerPlex® Y 23								
		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		21
		11	12	19	16		22	11	12
JKQL3U	PowerPlex® Y 23								
		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		21
		11	12	19	16		22	11	12
K6VPTP	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
K7MD3Q	Yfiler™								
	-	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	-	14	18	-	-
	-	-	-	-	-	-	22	-	12
KJBDLC	Yfiler™								
3sp									
KQTM8U	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
KWG3HZ	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
KYLTMU	Yfiler™ Plus								
	35,35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12

TABLE 2

Item / WebCode	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 / WebCode	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
LRLZ8R Yfiler™									
		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		
							22		12
LTDQXJ Yfiler™ Plus									
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
LVKC3R Yfiler™									
		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		
							22		12
LWUFHA Yfiler™									
3sp									
MB8LA8 Yfiler™ Plus									
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
MJMXEE Yfiler™ Plus									
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
MND8ND Yfiler™ Plus									
	35,35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
NT67ML PowerPlex® Y 23									
		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		21
		11	12	19	16		22	11	12
PB4BHG Yfiler™ Plus									
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
Q9DY8U Yfiler™ Plus									
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
QRNG8L Yfiler™									
		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		
							22		12
QX9GKD PowerPlex® Y 23									
		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		21
		11	12	19	16		22	11	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

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
R2PY32	Yfiler™ Plus								
3sp									
R8DJ7G	PowerPlex® Y 23								
3sp									
RC6N27	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
RF6WAM	PowerPlex® Y 23								
		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		21
		11	12	19	16		22	11	12
RHDELK	Yfiler™								
		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		
							22		12
RJRGC7	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
RKGCR8	Yfiler™ Plus								
	35,35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
RTWTKG	Yfiler™								
		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		
							22		12
TC7B77	Yfiler™ Plus								
	35,35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
TNYWBF	Yfiler™								
		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		
							22		12
TXNMVM	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
TZT8K9	Yfiler™ Plus								
	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		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	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
U9GTEP Yfiler™ Plus	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
UP92LJ Yfiler™ Plus	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
V8BNQK PowerPlex® Y 23		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		21
		11	12	19	16		22	11	12
VGQCZF Yfiler™ Plus	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
VNM4EA Yfiler™		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		
							22		12
VXCXK7 Yfiler™ Plus	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
W37LNC PowerPlex® Y 23		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		21
		11	12	19	16		22	11	12
W99T6Z Yfiler™ Plus	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
WEXBKW Yfiler™ Plus	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
WYH8Y3 Yfiler™ Plus	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
X7L92G Yfiler™ Plus	35	14	11,13	15	31	23	11	14	14
3sp	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12
XDZMXE Yfiler™		14	11,13	15	31	23	11	14	14
3sp	14	10	10	19		14	18		
							22		12

TABLE 2

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

WebCode / Amplification Kit

Item 3sp - YSTR Results

XJ2V6Z — Yfiler™

| 3sp | | | | | | | | | |

XK3AU2 — Yfiler™ Plus

3sp	35	14	11,13	15	31	23	11	14	14
	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12

XQRNJ9 — Yfiler™ Plus

3sp	35	14	11,13	15	31	23	11	14	14
	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12

Y4R89Y — Yfiler™ Plus

3sp	35	14	11,13	15	31	23	11	14	14
	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12

Y8THHZ — Yfiler™ Plus

3sp	35,35	14	11,13	15	31	23	11	14	14
	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12

YKWENZ — Yfiler™ Plus

3sp	35	14	11,13	15	31	23	11	14	14
	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12

YMKTCB — PowerPlex® Y 23

3sp		14	11,13	15	31	23	11	14	14
	14	10	10	19		14	18		21
		11	12	19	16		22	11	12

ZJ3HPD — Yfiler™ Plus

3sp	35	14	11,13	15	31	23	11	14	14
	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		12

ZMFFXZ — Yfiler™ Plus

3sp	35,35	14	11,13	15	31	23	11	14	14
	14	10	10	19	29	14	18	11	21
	38	11		19	16	21	22		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

	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
27AE2D	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
722GJ9	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
788D39	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
ARL22P	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
D8JV8R	Yfiler™ Plus								
4									
E4DGRK	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
G2LZTW	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
HJVF9V	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
JKQL3U	PowerPlex® Y 23								
4									
K6VPTP	Yfiler™ Plus								
4									
K7MD3Q	Yfiler™								
	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
KQTM8U	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

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 4 - YSTR Results

MND8ND — Yfiler™ Plus — Item 4

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	No Result	No Result	No Result	No Result	No Result	No Result	No Result	No Result	No Result
	No Result	No Result	No Result	No Result	No Result	No Result	No Result	No Result	No Result
	No Result	No Result		No Result	No Result	No Result	No Result		No Result

RKGCR8 — Yfiler™ Plus — Item 4

	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

RTWTKG — Yfiler™ — Item 4

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		No Result	No Result	No Result	No Result	No Result	No Result	No Result	No Result
	No Result	No Result	No Result	No Result		No Result	No Result		
						No Result			No Result

TC7B77 — Yfiler™ Plus — Item 4

	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

TNYWBF — Yfiler™ — Item 4

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		--	--	--	--	--	--	--	--
	--	--	--	--		--	--		
						--			--

UP92LJ — Yfiler™ Plus — Item 4

	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

Y8THHZ — Yfiler™ Plus — Item 4

	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

ZJ3HPD — Yfiler™ Plus — Item 4

	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

ZMFFXZ — Yfiler™ Plus — Item 4

	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

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
D10S1435	ETFGG3	14,15	13,14		12,14,15	12,12	14,15		
D10S2325	ETFGG3	7,10	12,13		7,10,12	12,12	7,10		
D11S2368	ETFGG3	19,20	18,21		19,20	19,19	19,20		
D13S325	ETFGG3	21,21	19,20		21,21	21,21	21,21		
D14S1434	ETFGG3	13,13	14,14		12,13	12,12	13,13		
D15S659	ETFGG3	17,17	11,11		17,18	18,18	17,17		
D17S1301	ETFGG3	11,12	11,12		11,12,13	11,13	11,12		
D18S1364	ETFGG3	16,20	15,18		15,16,18,20	15,18	16,20		
D19S253	ETFGG3	7,12	7,7		7,12	12,12	7,12		
D20S482	ETFGG3	13,14	13,15		13,14,15	14,15	13,14		
D21S2055	ETFGG3	19.1,25	16.1,32		19.1,25	19.1,25	19.1,25		
D22GATA198B05	ETFGG3	18,21	17,21		17,18,21	17,21	18,21		
D2S1360	ETFGG3	22,22	21,22		22,24	22,24	22,22		
D3S1744	ETFGG3	17,17	14,20		14,17	14,17	17,17		
D3S3045	ETFGG3	11,14	13,13		10,11,14	10,14	11,14		
D4S2366	ETFGG3	9,9	11.2,13		9,14	9,14	9,9		
D5S2500	ETFGG3	15,15	12,15		15,15	15,15	15,15		
D5S2800	ETFGG3	14,24	14,17		14,23,24	23,24	14,24		
D6S474	ETFGG3	14,14	13,13		14,15,16	15,16	14,14		
D6S477	ETFGG3	15,16	13,14		11,15,16	11,16	15,16		
D7S1517	ETFGG3	19,22	19,25		19,22,24	19,24	19,22		
D7S3048	ETFGG3	25,25	19,23		20,23,25	20,23	25,25		
D8S1132	ETFGG3	21,23	19,20		19,21,23	19,23	21,23		
D9S1122	ETFGG3	12,13	11,12		12,13	12,13	12,13		
F13A01	43YFEA	7	13,15		6,7	6,7	7		
	ETFGG3	7,7	13,15		6,7	6,7	7,7		

TABLE 3

Locus	WebCode	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4	Item 4e	Item 4sp
F13B	43YFEA	6,9	8,9			8,10	6,9		
	ETFGG3	6,9	8,9		6,8,9,10	8,10	6,9		
FESFPS	43YFEA	10,11	8,11		10,11		10,11		
	ETFGG3	10,11	8,11		10,11	11,11	10,11		
LPL	43YFEA	10	10		10,11	10,11	10		
	ETFGG3	10,10	10,10		10,11	10,11	10,10		
PENTA C	43YFEA	11,12	10,11			11,14	11,12		
PENTA_C	ETFGG3	11,12	10,11		11,12,14	11,14	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
27AE2D	Yes	Yes	No	No	6PNRRB	Yes	Yes	No	No
27AFMB	Yes	Yes	No	No	6RXAZ2	Yes	Yes	No	No
2BVMRV	Yes	Yes	No	No	6U26J6	Yes	Yes	No	No
2DRGQ8	Yes	Yes	No	No	722GJ9	Yes	Yes	No	No
2G6MHV	Yes	Yes	No	No	788D39	Yes	Yes	No	No
2L29BJ	No Interp	No Interp	No Interp	No Interp	7B8WAT	Yes	Yes	No	No
2L6B7A	Yes	Yes	No	No	7HM32D	Yes	Yes	No	No
2LG6NV	Yes	Yes	No	No	7PLU72	Yes	Yes	No	No
39N3H9	Yes	Yes	No	No	7XW64R	Yes	Yes	No	No
3C9H4G	Yes	Yes	No	No	8JR9KP	Yes	Yes	No	No
3MBHZA	Yes	Yes	No	No	8MXAMV	Yes	Yes	No	No
43YFEA	Yes	Yes	No	No	8UH9GA	Yes	Yes	No	No
4DW8TZ	Yes	Yes	No	No	8YUJN7	Yes	Yes	No	No
4ZDZW8	Yes	Yes	No	No	94VEKB	Yes	Yes	No	No
623PUT	Yes	Yes	No	No	94X4N9	Yes	Yes	No	No
648GM8	Yes	Yes	No	No	9CEKJ4	Yes	Yes	No	No
68CDLW	Yes	Yes	No	No	9V3G3V	Yes	Yes	No	No
6BAWPG	Yes	Yes	No	No	9WXZ4W	Yes	Yes	No	No
6GFXZ4	Yes	Yes	No	No	A3JYQA	Yes	Yes	No	No
6KWX46	Yes	Yes	No	No	A7Y48W	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
ADYU4N	Yes	Yes	No	No	C4NCHV	Yes	Yes	No	No
AHDYQ3	Yes	Yes	No	No	C6HZ2Q	Yes	Yes	No	No
AJ6PMN	Yes	Yes	No	No	C9WQXJ	Yes	Yes	No	No
AKZG3W	Yes	Yes	No	No	CFJXVY	Yes	Yes	No	No
ALR6CX					CNRXBZ	Yes	Yes	No	No
ARL22P	Yes	Yes	No	No	CXHHNZ	Yes	Yes	No	No
AU6Q8Z	Yes	Yes	No	No	D4V3UG	Yes	Yes	No	No
AWWK9B	Yes	Yes	No	No	D8JV8R	Yes	Yes	No	No
B4CMV4	No Interp	No Interp	No Interp	No Interp	DTFA4L	Yes	Yes	No	No
BAXAEV	Yes	Yes	No	No	DTKDC8	Yes	Yes	No	No
BBUN2M	Yes	Yes	No	No	E2R8PR	Yes	Yes	No	No
BC43F2	Yes	Yes	No	No	E4DGRK	Yes	Yes	No	No
BDXJJ6	Yes	Yes	No	No	E688XZ	Yes	Yes	No	No
BGYUQJ	Yes	Yes	No	No	EEZFMW	Yes	Yes	No	No
BH86K3	Yes	Yes	No	No	EQ74GT	Yes	Yes	No	No
BK2T3X	Yes	Yes	No	No	ETFGG3	Yes	Yes	No	No
BMNAEQ	Yes	Yes	No	No	EUBYH4	Yes	Yes	No	No
BQWLM4	Yes	Yes	No	No	EVHB4J	Yes	Yes	No	No
BRGCHQ	Yes	Yes	No	No	EZJU8Q	Yes	Yes	No	No
BRV39L	Yes	Yes	No	No	F3JT9P	Yes	Yes	No	No
C2EUB6	No Interp	No Interp	No Interp	No Interp	F6MNRT	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
F72K8Q	Yes	Yes	No	No	JWMXNZ	Yes	Yes	No	No
F8X49R	Yes	Yes	No	No	K4FV4V	Yes	Yes	No	No
FEUGRK	Yes	Yes	No	No	K6VPTP	Yes	Yes	No	No
FKFCTN	Yes	Yes	No	No	K7MD3Q	Yes	Yes	No	No
FNHNTH	Yes	Yes	No	No	KJBDLC	Yes	Yes	No	No
FWQHLP	Yes	Yes	No	No	KLGACU	Yes	Yes	No	No
FYGKQD	No Interpretations Reported, DNA Analyzed for Database purposes only.				KLXXKV	Yes	Yes	No	No
G2LZTW	Yes	Yes	No	No	KQTM8U	Yes	Yes	No	No
GDDNNW	Yes	Yes	No	No	KT262J	Yes	Yes	No	No
GYT8FY	Yes	Yes	No	No	KWG3HZ	Yes	Yes	No	No
H7UEHR	Yes	Yes	No	No	KYLTMU	Yes	Yes	No	No
HENTVT	Yes	Yes	No	No	L64HLU	No Interp	No Interp	No Interp	No Interp
HJVF9V	Yes	Yes	No	No	L8C69U	Yes	Yes	No	No
HQYV8V	No Interp	No Interp	No Interp	No Interp	LFRM8V	Yes	Yes	No	No
HT6HGU	Yes	Yes	No	No	LLT2NQ	Yes	Yes	No	No
HX3A3T	Yes	Yes	No	No	LQ39WF	Yes	Yes	No	No
J3NXJF	Yes	Yes	No	No	LRLZ8R	Yes	Yes	No	No
J9ATJJ	Yes	Yes	No	No	LTDQXJ	Yes	Yes	No	No
JCHMXY	Yes	Yes	No	No	LU8EFE	Yes	Yes	No	No
JG92KK	Yes	Yes	No	No	LVKC3R	Yes	Yes	No	No
JKQL3U	Yes	Yes	No	No	LWE6XB	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
LWUFHA	Yes	Yes	No	No	PB4BHG	No Interp	No Interp	No	No Interp
LXQYFW	Yes	Yes	No	No	PDQHNB	Yes	Yes	No	No
M62MPN	Yes	Yes	No	No	PFTLED	Yes	Yes	No	No
MB8LA8	Yes	Yes	No	No	PKADKT	Yes	Yes	No	No
ME9P2U	Yes	Yes	No	No	PWJTMR	Yes	Yes	No	No
MEQ9VM	Yes	Yes	No	No	Q2CPYG	Yes	Yes	No	No
MEVZXG	Yes	Yes	No	No	Q3677Q	Yes	Yes	No	No
MJK9AH	Yes	Yes	No	No	Q6BQR7	Yes	Yes	No	No
MJMXEE	No Interp	No Interp	No	No Interp	Q8HJTC	Yes	Yes	No	No
MKZZBR	Yes	Yes	No	No	Q9DY8U	Yes	Yes	No	No
MMJJ6H	Yes	Yes	No	No	QME4PM	Yes	Yes	No	No
MND8ND	Yes	Yes	No	No	QRNG8L	Yes	Yes	No	No
MP8XUR	Yes	Yes	No	No	QX9GKD	Yes	Yes	No	No
MPQALQ	Yes	Yes	No	No	QY6VAQ	Yes	Yes	No	No
N7VQUJ	Yes	Yes	No	No	R2PY32	Yes	Yes	No	No
N9UX7E	Yes	Yes	No	No	R4UUY7	Yes	Yes	No	No
NGCFTN	Yes	Yes	No	No	R8DJ7G	Yes	Yes	No	No
NJWWVM	Yes	Yes	No	No	RBBZHB	Yes	Yes	No	No
NT67ML	Yes	Yes	No	No	RC6N27	Yes	Yes	No	No
P83Z9E	Yes	Yes	No	No	RF6WAM	Yes	Yes	No	No
PAAMYK	Yes	Yes	No	No	RHDELK	Yes	Yes	No	No

TABLE 4

WebCode	Victim (Item 1) Item 3	Item 4	Suspect (Item 2) Item 3	Item 4	WebCode	Victim (Item 1) Item 3	Item 4	Suspect (Item 2) Item 3	Item 4
RJRGC7	Yes	Yes	No	No	VJFD9P				
RKGCR8	Yes	Yes	No	No	VNM4EA	Yes	Yes	No	No
RQAEV7	Yes	Yes	No	No	VR8WKC	Yes	Yes	No	No
RTWTKG	No Interp	No Interp	No	No Interp	VXCXK7	Yes	Yes	No	No
RWVWZM	Yes	Yes	No	No	W2FNRL	Yes	Yes	No	No
T66VL6	Yes	Yes	No	No	W37LNC	Yes	Yes	No	No
TC7B77	Yes	Yes	No	No	W99T6Z	Yes	Yes	No	No
TD2QKN	Yes	Yes	No	No	WAKV7L	Yes	Yes	No	No
TNYWBF	No Interp	No Interp	No	No Interp	WEXBKW	Yes	Yes	No	No
TXNMVM	Yes	Yes	No	No	WP2VY7	Yes	Yes	No	No
TZT8K9	No Interp	No Interp	No	No Interp	WYH8Y3	Yes	Yes	No	No
U9GTEP	Yes	Yes	No	No	X7FP3Z	Yes	Yes	No	No
UFZQW6	Yes	Yes	No	No	X7L92G	Yes	Yes	No	No
UP92LJ	Yes	Yes	No	No	XDZMXE	Yes	Yes	No	No
UV9D7Z	No Interpretations Reported, DNA Analyzed for Database purposes only.				XG2TAY	Yes	Yes	No	No
UVWFYA	Yes	Yes	No	No	XHX7XR	Yes	Yes	No	No
UYVRUA	Yes	Yes	No	No	XJ2V6Z	Yes	Yes	No	No
V8BNQK	Yes	Yes	No	No	XJ9LB7	Yes	Yes	No	No
VD9MMB	Yes	Yes	No	No	XK3AU2	Yes	Yes	No	No
VGQCZF	Yes	Yes	No	No	XLVPX6	Yes	Yes	No	No
VH89TF	Yes	Yes	No	No	XN688E	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
XQRNJ9	Yes	Yes	No	No					
XTDVXH	Yes	Yes	No	No					
Y4R89Y	Yes	Yes	No	No					
Y8THHZ	Yes	Yes	No	No					
YKWENZ	Yes	Yes	No	No					
YMKTCB	Yes	Yes	No	No					
YZACJ8	Yes	Yes	No	No					
ZEQ369	Yes	Yes	No	No					
ZGE424	Yes	Yes	No	No					
ZGUXNB	Yes	Yes	No	No					
ZJ3HPD	Yes	Yes	No	No					
ZMFFXZ	Yes	Yes	No	No					
ZNWCPZ	Yes	Yes	No	No					
ZW7CAF	Yes	Yes	No	No					
ZZ6M7F	Yes	Yes	No	No					

DNA Interpretation

Response Summary   **Participants reporting DNA results: 223**

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	**209**	**209**	**0**	**0**
No	**0**	**0**	**214**	**209**
Inc	**0**	**0**	**0**	**0**
No Interpretation	**10**	**10**	**5**	**10**
No Response	**2**	**2**	**2**	**2**

Participants analyzing DNA for database purposes only: 2

Additional Comments
TABLE 5

WebCode	Additional Comments
27AE2D	NR = No Result. STRmix analysis conducted on this test. Reported data analyzed with GeneMapper ID-X.
2BVMRV	Probabilistic genotyping was used to support inclusions/exclusions. [Name] Forensic Scientist II
2L29BJ	Technician is authorized through DNA processing, does not compare/report DNA results.
3MBHZA	-The victim (Item 1) and an unknown individual are not excluded as contributor to the mixture cells found in the ephitelial fraction in the stain recovered from the victim´s underwear (Item 3). - One unknown individual is not excluded as the origin of the sperm found in the spermatic fraction in the stain recovered from the victim´s underwear (Item 3). -The suspect (Item 2) is excluded as the contributor of the mixture cells found in the ephitelial fraction in the stain recovered from the victim´s underwear (Item 3). -The suspect (Item 2) is excluded as the source of the sperm found in the spermatic fraction in the stain recovered from the victim´s underwear (Item 3). -The victim (Item 1) is not excluded as the source of the blood detected in the suspect´s shirt.
6KWX46	NR = no DNA results
6PNRRB	ND = Not detected
6RXAZ2	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 victim's underwear (yellow). Male DNA was not detected on Item 4: Questioned blood stain from suspect's shirt (blue). Spermatozoa were observed by microscopic analysis on Item 3.
6U26J6	NR = No DNA result
722GJ9	STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X. NR = no results.
788D39	NR=No Results. STRmix analysis was conducted on Item 3e. Data for all reported items was generated with Genemapper ID-X.
7HM32D	1-Item (3) victims underwear positive blood and semen. 2-Item (4) suspect shirts positive blood and negative semen. 3- Differential extraction was performed for item (3) and the result is: a- The blood is for the victim. b- The sperm is for adiffrent male not the suspect item (2). 4- The genetic profile for the blood on item (4) is match with the victim.
7PLU72	Screening for presence of male DNA using Plexor HY Real-Time PCR System was performed on Item 3 (Questioned blood and semen stain from victim's underwear (yellow)) and Item 4 (Questioned blood stain from suspect's shirt (blue)). Male DNA was detected on Item 3. Male DNA was not detected on Item 4. Sperm cells were detected on a slide prepared from item #3 sperm cell fraction.
7XW64R	Item 3: Y-STR analysis was not performed on the sperm fraction. Probabilistic genotyping was used to support inclusion/exclusions on the non-sperm fraction. [Name] 8/26/22
8JR9KP	Probabilistic genotyping was used to support inclusions/exclusions. [Name] 8/30/22
8UH9GA	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. The likelihood ratio for both the victim and suspect were limited support for exclusion for the sperm fraction for Item 3. This will be reported as an exclusion.

TABLE 5

WebCode	Additional Comments
9CEKJ4	Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using the Chelex extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using the Quantifiler Human DNA Quantification kit on the Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 system. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using the AmpFlSTR Identifiler Plus PCR Amplification kit on the 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification was carried out on Item 2 and Item 3 using the AmpFlSTR Y-filer PCR Amplification kit on the 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on the Applied Biosystems 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 1, Item 2, Item 3 and Item 4 (Identifiler Plus). Electrophoresis for Y-Filer was carried out on the Applied Biosystems 3500xl Genetic Analyzer with GeneMapper ID-X Software for Item 2 and Item 3. Quality Control: Reagent blank, positive control and negative control were carried out throughout the analysis and all gave intended results.
9V3G3V	Differential extraction was completed on Item 4 where the sperm fraction was stopped at quant.
ALR6CX	Screening for presence of male DNA using Plexor HY Real-Time PCR System was performed on Item 3: Questioned blood and semen stain from victim's underwear (yellow) and Item 4: Questioned blood stain from suspect's shirt (blue). Male DNA was detected on Item 3. Male DNA was not detected on Item 4.
ARL22P	NR = no result. Item 3: Human male DNA was detected. Item 4: Human male DNA was not detected.
B4CMV4	The assigned scientist is authorized in extraction through CE and not in data interpretation. Profiling results were analyzed by a second scientist to confirm that the correct results were obtained.
BH86K3	STR alleles that are modeled as stutter are not transferred to the PT allele tables but may be present.
C2EUB6	No interpretation of Items 3 and 4. Items 1-4 were extracted and quantified. No DNA typing was performed.
C4NCHV	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 victim's underwear (yellow). Male DNA was not detected on Item 4: Questioned blood stain from suspect's shirt (blue). Spermatozoa were observed during microscopic examination of item 3 (sperm cell fraction)
C9WQXJ	Probabilistic genotyping was used to support inclusions/exclusions. [Name] 9/2/22
CXHHNZ	Item 3 did not have enough sperm present to obtain a complete profile. Allele 12 at D16S539 and allele 11 at TPOX in the sperm cell fraction of Item 3 were above the laboratory's analytical threshold, but below the laboratory's stochastic threshold. The sample was eluted to the lowest allowable volume and subsequently amplified at the highest allowable volume, per the laboratory's SOP. Several attempts were made to extract this sample, but with each attempt there was a low sperm count and a low quantitation value. Approximately 80% of the sample was used for these attempts. The number of sperm cells observed during the pre-digest microscopic examination was consistently below 10 sperm cells on each slide made. The loci D16S539 and TPOX for Item 3 would be deemed uninterpretable per the laboratory SOP due to the presence of an allele below stochastic threshold.
D4V3UG	Probabilistic genotyping was used to support inclusion/exclusion. 090622 [Initials]
D8JV8R	Item 4 amplified using YFiler Plus kit. No amplified product detected.
E4DGRK	Y-Screen analysis performed on items 3 and 4 with a positive result for item 3 and a negative result for item 4. NR = no result. Y-STR analysis not performed on item 1 (female victim known).

TABLE 5

WebCode	Additional Comments
EEZFMW	Extraction: Item 1 and Item 2 were extracted using chelex extraction method, Item 3 was extracted using differential extraction method and Item 4 was extracted using QIAsymphony DNA Investigator Kit via QIAsymphony SP platform. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio DNA 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 2 and Item 3 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 2 and Item 3 were carried out on Genetic Analyzer 3500xL. Quality Control: Reagent blank, positive control and negative control were incorporated throughout analysis and all gave intended results. NM : non-male profile.
EUBYH4	A sample from the boyfriend should have been sent for comparison with the mixture found from the semen stain on the victim's underwear.
EVHB4J	Probabilistic Genotyping (True Allele Software) was used on the non-sperm fraction for Item 3 to support inclusions and exclusions. The victim was included and the suspected was excluded. [Initials] 08.29.22
FEUGRK	INC means inconclusive.
G2LZTW	NR = no results. STRmix analysis was conducted on Item 3e. Data reported out is from analysis using GeneMapper ID-X.
GYT8FY	ITEM 3 SEMEN: a male genetic profile was obtained from the sperm fraction, ITEM 2 (suspect) is excluded as donor of that profile. A mixed genetic profile was obtained from the epithelial fraction, including an unknown male and ITEM 1 (victim). ITEM 4 BLOOD: a female genetic profile was obtained, which coincides with ITEM 1 (victim).
HENTVT	Item 3 - Male screening was performed on this item using the Plexor HY System. Male DNA was detected on this item. Item 4 - Male screening was performed on this item using the Plexor HY System. Male DNA was not detected on this item. Spermatozoa were observed on a microscopic smear prepared from Item 3.
HJVF9V	STRmix analysis was performed on items from this test. The data reported out on this test is from GeneMapper ID-X analysis. NR = No Results.
HQYV8V	The assigned scientist is authorized in extraction through CE and not in data interpretation. Profiling results were analyzed by a second scientist to confirm that the correct results were obtained.
J3NXJF	Probabilistic genotyping was used to support inclusions/exclusions. [Initials] 01Aug22
K7MD3Q	Extraction: -Item 1 and Item 2 were extracted using Chelex extraction method. -Item 3 (bloodstain) and Item 4 were extracted using Automate Express by Prepfiler Express kit. -Item 3 (semen stain) was extracted using differential extraction method. Quantification: -Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio DNA Quantification kit on QuantStudio 5 Real-Time PCR System. Amplification was performed on ProFlex PCR System for: -Item 1, Item 2, Item 3(bloodstains), Item 3(sp), Item 3(epi) and Item 4 were amplified using GlobalFiler Amplification kit. -Item 2, Item 3(bloodstains), Item 3(sp), Item 3(epi) and Item 4 were amplified using Y-Filer Kit. Electrophoresis: -All amplified product were run on Genetic Analyzer 3500. Quality Control: -All reagent blank, positive control and negative control were carried out throughout the analysis and all gave intended results.
KJBDLC	Probabilistic Genotyping was used to support inclusions/exclusions [Name] 9/6/2022
KLXXKV	NR = no results
KQTM8U	NR=No Results. STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X.
KWG3HZ	Item 3 sperm cell fraction GlobalFiler: Per SOP, no interpretation at DYS391 so all types detected left in.

TABLE 5

WebCode	Additional Comments
KYLTMU	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.
L64HLU	This proficiency test was limited to DNA extraction and quantitation. No further analysis was performed.
LLT2NQ	NR = no result
LRLZ8R	Extraction: Item 1, Item 2 and Item 4 were extracted using Chelex Extraction while Item 3 was extracted using Chelex Differential Extraction. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using the Quantifiler Human DNA quantitation kit and carried out by 7500 Real-Time PCR. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using AMPFlSTR Identifiler Plus Kit on 9700 GeneAmp PCR System. Item 2 and Item 3 were amplified using AMPFLSTR YFiler Kit on 9700 GeneAmp PCR System. Electrophoresis: The electrophoresis process was carried out by Genetic Analyser 3500xl for Item 1 to Item 4. Quality Control: Reagent blank, positive control, and negative control were carried out along with the analysis and all gave the intended results.
LVKC3R	1. Extraction: Chelex extraction method was used to extract DNA from Item 1 to Item 4. 2. Quantification: DNA quantification for Item 1 to Item 4 was carried out using Quantifiler Human DNA Quantification Kit with Applied Biosystem Real Time Polymerase Chain Reaction 7500 System. 3. Amplification: Amplification of STR (Short Tandem Repeat) Genetic Loci was carried out on Item 1 to Item 4 using the Globalfiler PCR Amplification Kit on the 9700 GeneAmp PCR System. Amplification of Y-STR (Short Tandem Repeat) Genetic Loci was carried out on Item 2 and Item 3 using the AmpFlSTR Y-Filer PCR Amplification Kit on the 9700 GeneAmp PCR System. 4. Electrophoresis: Electrophoresis was carried out using Applied Biosystem 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 1 to Item 4 (Globalfiler). Electrophoresis for Y-Filer was carried out using Applied Biosystem 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 2 and Item 3. 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
LWUFHA	Probabilistic genotyping was used to support inclusions/exclusions [Initials] 08/23/22
ME9P2U	Very strong support for inclusion of Victim (Item-3e). 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.
MEQ9VM	[ ] = lighter intensity allele, NR = no DNA results
MJMXEE	Y-STR analysis was performed on this proficiency test. Male DNA was not detected on items 1 and 4, therefore YSTR analysis was not performed on items 1 or 4.
MKZZBR	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.
MND8ND	Y-Screening (male DNA) was performed on items 3 and 4 utilizing QuantiFiler Trio. Item 3 tested positive, item 4 tested negative.
MPQALQ	ND=Not Detected

TABLE 5

WebCode	Additional Comments
N7VQUJ	Screening for the presence of male DNA using Plexor HY real time PCR was performed on Item 3: Questioned blood and semen stain from victim's underwear and Item 4: Questioned blood stain from suspect's shirt. Male DNA was detected on item 3. Male DNA was not detected on item 4. Spermatozoa were detected on item 3 by microscopic examination of the sperm cell fraction.
PAAMYK	NR = No DNA result
Q3677Q	Item 1 = Item 4 Item 3: LR = Item 1 + 1 UNKN vs 2 Unkn = 7.3E+12 (LRMix Studio), 4.6E+12 (LabRetriever), 2.0E+15 (DNAView), 4.1E+24 (EFM). LR = Item 1 + Item 2 vs Item 1 + 1 UNKN = 7.7E-48 (LRMix Studio), 6.2E-45 (LabRetriever), 2.0E-667 (DNAView), 1.1E-149 (EFM).
QRNG8L	Extraction: Item 1 and Item 2 were extracted using chelex extraction method. Item 3 was extracted using differential extraction method. Item 4 was extracted using QIAsymphony DNA Investigator Kit via QIAsymphony SP platform. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio DNA 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 2 and Item 3 using AmFISTR 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 2 and Item 3 were carried out on Genetic Analyzer 3500xL. Quality Control: Reagent blank, positive control and negative control were incorporated throughout analysis and all gave intended results. NM : non-male profile.
RHDELK	Extraction: Item 1 and Item 2 were extracted using chelex extraction method, Item 3 was extracted using differential extraction method and Item 4 was extracted using QIAsymphony DNA Investigator Kit via QIAsymphony SP platform. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio DNA 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 2 and Item 3 using AmFISTR 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 2 and Item 3 were carried out on Genetic Analyzer 3500xL. Quality Control: Reagent blank, positive control and negative control were incorporated throughout analysis and all gave intended results. NM : non-male profile.
RKGCR8	NR = No Result. Item 1 (female known) was not analyzed with Y-Filer Plus. Screening for the presence of human male DNA was performed on items 3 and 4 using QuantFiler™ Trio DNA Quantification kit and QuantStudio™ 5 Real-Time PCR System for Human Identification. Human male DNA was detected on item 3. Human male DNA was not detected on item 4.
RTWTKG	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 victim's underwear (yellow) and Item 4: Questioned blood stain from suspect's shirt (blue). Male DNA was detected on Item 3. Male DNA was not detected on Item 4. As part of the differential extraction performed on Item 3, spermatozoa were detected in the sperm cell fraction. Only Y-STR testing was performed. Consequently, no conclusions were drawn regarding the female victim's contribution to Item 3 and Item 4. No conclusions were drawn regarding Item 4 due to the absence of a Y-STR profile.
RWWZM	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.
TC7B77	NR = No Results. Item 1 not analyzed for Y-STR DNA. Item 2 analyzed with the Yfiler Plus PCR Amplification Kit in direct mode. No Y-STR DNA profile obtained for Item 4 (consistent with quant and STR results). Mitochondrial DNA analysis not performed by this laboratory. Items 3 & 4 processed with Y-Screen Assay (QF Trio): Human male DNA detected on item 3, and no human male DNA detected on item 4.

TABLE 5

WebCode	Additional Comments
TNYWBF	Screening Results: Screening test not performed on Item1: Known blood from the female victim. Screening test not performed on Item 2: Known blood from the male 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 victim's underwear (Yellow). 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 suspect's shirt (blue). Male DNA was not detected on this item. Spermatozoa were observed on a slide prepared from item 3.
TXNMVM	NR = No Results
TZT8K9	YSTR analysis performed only for this proficiency test, therefore, Item #1 (female victim) and Item 4 - no male DNA detected during quantitation, were not moved forward for YSTR testing.
U9GTEP	All types not matching the victim in the non-sperm cell fraction of Item 3 are consistent with the donor of the sperm cell fraction of Item 3. DYS391 in Globalfiler is used solely for determining if male DNA is present, the 10 allele for the sperm cell fraction of Item 3 is most likely stutter but since this locus is not interpreted it is not called of during GMIDX interpretation.
UP92LJ	NR = no results
V8BNQK	BASED ON THE DNA RESULTS, IN ITEM N°3: THE GENETIC PROFILES OF TWO INDIVIDUALS WERE DETECTED AND WHEN COMPARED, ONE IF THEM COINCIDES WITH THE PROFILE OF THE VICTIM AND THE OTHER PROFILE CANNOT BE DETERMINED DUE TO THE LACK OF MORE COMPARISON SAMPLES, THEREFORE, THE SUSPECT IS EXCLUDED AS THE DONOR OF THE GENETIC PROFILE DETECTED IN ITEM N°3. IN ITEM N°4: THE GENETIC PROFILE OF A FEMALE INDIVIDUAL WAS DETECTED AND WHEN COMPARED, IT COINCIDES WITH THE GENETIC PROFILE OF THE VICTIM.
VH89TF	1. The DNA detected in sample 79725 is consistent with originating from an unknown male source, Male 1. The Victim and the Suspect are excluded as sources of the DNA detected in this sample. 2. The DNA mixture detected in sample 79726 is consistent with a major component originating from the Victim and a minor component consistent with originating from the unknown male, Male 1. The Suspect is excluded as a contributor to the DNA mixture detected in this sample. 3. The DNA detected in sample 79729 is consistent with originating from a female source. The DNA detected in this sample matches the DNA profile obtained from the Victim. Excluding an identical twin, the Victim is the source of the DNA detected in this sample. The Suspect is excluded as a source of the DNA detected in this sample. 4. A DNA profile originating from a female source was obtained from sample 79731 (Victim). 5. A DNA profile originating from a male source was obtained from sample 79732 (Suspect).
VJFD9P	Analyst performs data analysis using GeneMapper but does not perform data interpretation or reporting.
VR8WKC	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 victim's underwear (yellow) and Item 4: Questioned blood stain from suspect's shirt (blue). Male DNA was detected on Item 3. Male DNA was not detected on Item 4. Spermatozoa were observed on the slide made from item 3 (sperm cell fraction)
X7L92G	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.

TABLE 5

WebCode	Additional Comments
XDZMXE	Extraction: Item 1 and Item 2 were extracted using chelex extraction method, Item 3 was extracted using differential extraction method and Item 4 was extracted using QIAsymphony DNA Investigator Kit via QIAsymphony SP platform. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio DNA 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 2 and Item 3 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 2 and Item 3 were carried out on Genetic Analyzer 3500xL. Quality Control: Reagent blank, positive control and negative control were incorporated throughout analysis and all gave intended results. NM : non-male profile.
XHX7XR	Le profil génétique du suspect Item2 ne concorde pas avec la fraction spermatique Item3. Le profil génétique de la victime Item1 concorde avec la fraction épithéliale Item3 et le profil génétique de Item4. [Requested translation was not provided by time of publication.]
XJ2V6Z	Probabilistic genotyping was used to support inclusions/exclusions. [Name] 8/18/2022 Forensic Scientist II
Y8THHZ	NR = no results. Y-screen result: Male DNA was detected on item 1C (CTS item #3). Male DNA was not detected on item 1D (CTS item #4).
YZACJ8	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 victim's underwear (yellow) and Item 4: Questioned blood stain from suspect's shirt (blue). Male DNA was detected on Item 3: Questioned blood and semen stain from victim's underwear (yellow). No male DNA was detected on Item 4: Questioned blood stain from suspect's shirt (blue). Spermatozoa were observed on the slide made from item 3 (sperm cell fraction)
ZJ3HPD	NR = No results. STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X.
ZMFFXZ	Items 1 and 2 were not analyzed with the YS Assay. Item 3: YS Assay Positive. Item 4: YS Assay Negative. Item 1 was not analyzed for Y-STRs due to being known female DNA reference sample. NR= No Results
ZW7CAF	No statistical evaluations were made for the interpretation of the 4 profils. Profils #1, 2 and 4 are complete and individual. Profil #3 is a mixture of 2 individuals, at least. In the profil #3, the victim DNA profile and the profile of at least one unknown person are found.

-End of Report-
(Appendix may follow)

Test No. 22-5804: DNA-Semen

DATA MUST BE SUBMITTED BY **Sept. 6, 2022, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A   WebCode: CRE24Y

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.

<u>Scenario:</u>
Police are investigating a sexual assault involving a female victim and male suspect. The suspect is the manager at a nightclub where the victim works. The victim told police that for months her manager has been inappropriately touching her and making lewd comments about her body. Last night, the manager called her in his office for her annual review, but instead, forced the victim to have vaginal sex. The manager and victim struggled, during which the manager hit the victim in her nose and caused injuries to her genital area. After the assault the victim called her boyfriend who gave her a ride to the police station to report the assault. Police were able to apprehend the suspect shortly after. Investigators are submitting a stain from the underwear the victim was wearing (Item 3) and a stain from the t-shirt the suspect was wearing (Item 4). Screening tests have been performed on both samples with the following results: Item 3 (victim's underwear) is positive for blood and semen, and Item 4 (suspect's shirt) is positive for blood. Also collected were known blood samples from the female victim (Item 1) and the male suspect (Item 2). A known sample from the victim's boyfriend was not provided.

<u>Items Submitted (Sample Pack S4):</u>
Item 1: Known blood from the female victim
Item 2: Known blood from the male suspect
Item 3: Questioned blood and semen stain from victim's underwear (yellow)
Item 4: Questioned blood stain from suspect's shirt (blue)

Part I: DNA Results for Known Item 1

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X) and null responses.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].

STR Amplification Kit(s) Used: Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

☐ Identifiler®   ☐ GlobalFiler™   ☐ Investigator® 24plex

☐ PowerPlex®   Other

Report the Probabilistic Genotyping Software Used (if applicable):

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

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1						
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
1						
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
1						
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
1						
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
1						

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

☐ YFiler™   ☐ PowerPlex® Y   Other

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

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

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

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X) and null responses.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].

STR Amplification Kit(s) Used: Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

☐ Identifiler® ☐ GlobalFiler™ ☐ Investigator® 24plex

☐ PowerPlex® Other

Report the Probabilistic Genotyping Software Used (if applicable):

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

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2						
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
2						
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
2						
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
2						
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
2						

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

☐ YFiler™ ☐ PowerPlex® Y Other

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

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

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

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X) and null responses.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].

<u>STR Amplification Kit(s) Used:</u>   Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

☐ Identifiler® [   ]   ☐ GlobalFiler™ [   ]   ☐ Investigator® 24plex [   ]

☐ PowerPlex® [   ]   Other [   ]

Report the Probabilistic Genotyping Software Used (if applicable): [   ]

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

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

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

<u>YSTR Amplification Kit(s) Used:</u>   Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

☐ YFiler™ [   ]   ☐ PowerPlex® Y [   ]   Other [   ]

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

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

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

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

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X) and null responses.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].

STR Amplification Kit(s) Used: Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

☐ Identifiler® [　　　　]   ☐ GlobalFiler™ [　　　　]   ☐ Investigator® 24plex [　　　　]
☐ PowerPlex® [　　　　]   Other [　　　　]

Report the Probabilistic Genotyping Software Used (if applicable): [　　　　　　　]

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

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

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

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

☐ YFiler™ [　　　　]   ☐ PowerPlex® Y [　　　　]   Other [　　　　]

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

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

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

Part I (continued): DNA Analysis - Additional DNA

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

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

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

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

Part II: DNA INTERPRETATION

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

	Victim (Item 1)				Suspect (Item 2)	
	Item 3	Item 4			Item 3	Item 4
Yes	○	○		Yes	○	○
No	○	○		No	○	○
Inconclusive	○	○		Inconclusive	○	○
No Interpretation	○	○		No Interpretation	○	○

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

Part III: ADDITIONAL COMMENTS

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

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

RELEASE OF DATA TO ACCREDITATION BODIES

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

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

◯ This participant's data is intended for submission to ASCLD/LAB, ANAB, and/or A2LA. (Accreditation Release section below must be completed.)

◯ This participant's data is **not** intended for submission to ASCLD/LAB, ANAB, and/or A2LA.

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

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

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

A2LA Certificate No.

Step 2: Complete the Laboratory Identifying Information in its entirety

Authorized Contact Person and Title

Laboratory Name

Location (City/State)