



## **DNA-Semen Test No. 17-5804**

### **Summary Report**

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This proficiency test was sent to 223 participants. 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 194 participants (87% response rate) and are compiled into the following tables:

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

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

## **Manufacturer's Information**

Each sample pack consisted of two known bloodstains on clean, white muslin fabric (Items 1 & 2), and two questioned stains; one on clean, pink material (Item 3) and one on clean, blue/white patterned material (Item 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 blood bags or EDTA tubes. The stain in Item 3 was a mixture prepared from human whole blood and semen. The semen sample was received frozen from an outside supplier. The semen sample was first thawed and mixed 1:1 with TAE buffer, then mixed 1:1 with the blood. Item 1 (50  $\mu$ l) was prepared using blood collected from a female donor. Items 2 (50  $\mu$ l) and 4 (50  $\mu$ l) were both created using blood collected from the same male donor. Item 3 (50  $\mu$ l) was a mixture of blood from the Item 1 female donor and semen collected from the donor represented in Items 2 and 4. 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 05, 2017 following receipt of predistribution results.

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

**VERIFICATION:** All predistribution laboratories confirmed the manufacturers expected associations. Consistent allelic results were reported for all STR and YSTR loci with the exception of one pre-distribution laboratory that reported an additional allele call at D10S1248 that fell in stutter position and was found to be just above the analytical threshold. No changes were deemed necessary prior to distribution.

## 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	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	
1	14,16.3	23,24	10,11	16,17	*	11,13
	16,18	8,10	15,15	*	13,16	15,19
	11,12	9,13	*	16,19	13,15	*
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
2	16.3,17	17,23	11.3,14	15,17	*	11,13
	11,12	10,13	13,15	*	11,13	18.3,20
	10,11	10,14	*	13,17	13,14	*
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	16,34.2	6,8	8,8	16,16	
3-Blood	14,16.3	23,24	10,11	16,17	*	11,13
	16,18	8,10	15,15	*	13,16	15,19
	11,12	9,13	*	16,19	13,15	*
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
3-Semen	16.3,17	17,23	11.3,14	15,17	*	11,13
	11,12	10,13	13,15	*	11,13	18.3,20
	10,11	10,14	*	13,17	13,14	*
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	16,34.2	6,8	8,8	16,16	
4	16.3,17	17,23	11.3,14	15,17	*	11,13
	11,12	10,13	13,15	*	11,13	18.3,20
	10,11	10,14	*	13,17	13,14	*
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	16,34.2	6,8	8,8	16,16	

### 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	DYS505	DYS518	
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel
2	35,38	14	11,15	12	30	24	11	13	13	15	
	12	13	19	29	15	18	10	22	*	37	
	*	11	12	19	19	*	19	23	10	12	2
3-Semen	35,38	14	11,15	12	30	24	11	13	13	15	
	12	13	19	29	15	18	10	22	*	37	
	*	11	12	19	19	*	19	23	10	12	2
4	35,38	14	11,15	12	30	24	11	13	13	15	
	12	13	19	29	15	18	10	22	*	37	
	*	11	12	19	19	*	19	23	10	12	2

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

## **Summary Comments**

The DNA-Semen test is part of the DNA Sample Specific Series, where participants are advised of the body fluid(s) that make up the questioned stains. The test is designed to allow participants to assess their proficiency in the analysis of dried stains containing potential mixtures. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Item 1 was created using blood collected from a female donor. Items 2 and 4 were created using blood from the same male donor. Item 3 was a mixture containing blood from the Item 1 female donor and semen from the male donor used for Items 2 and 4. (See Manufacturer's Information for preparation details)

Of the 194 participants that returned results, four did not report DNA interpretations. All four participants stated that they analyzed samples for database purposes only.

For the Item 3 stain, 189 participants included the victim (Item 1) as a possible contributor, while one participant excluded the victim. All 190 participants included the suspect (Item 2) as a possible contributor to the Item 3 stain.

For the Item 4 stain, 189 participants excluded the victim (Item 1), while one participant offered no response. All 190 participants included the suspect (Item 2) as a possible contributor to the Item 4 stain.

Twenty two participants reported allelic results that differed from the consensus/predistribution results. Of these, 11 reported additional alleles at one or more loci. There were six participants reported inconsistent alleles at one or more loci. Additionally, four participants were missing alleles at one or more loci. Finally, one was missing an allele at one locus and reported additional alleles at multiple loci for another item.

# STR Amplification Kit(s) & Results

## TABLE 1

WebCode	Amplification Kits					
Item	D1S1656 D6S1043	D2S1338 D7S820	D2S441 D8S1179	D3S1358 D9S1122	D4S2408 D10S1248	D5S818 D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11 Penta E	D22S1045 SE33	Amelogenin TH01	CSF1PO TPOX	FGA vWA	Penta D

### Item 1 - STR Results

22NZHW	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
	1	8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
	27.2,28.2	6,9	8,9	15,17		
28V8JU	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
	1	8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	6,9	8,9	15,17		
2EDUUQ	PowerPlex® fusion					
	14,16.3	23,24	10,11	16,17		11,13
	1	8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	XX	11,13	20,24	10,12
	12,16	6,9	8,9	15,17		
2M4F2A	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
	1	8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	XX	11,13	20,24	
	27.2,28.2	6,9	8,9	15,17		
2UPB3D	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
	1	8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	6,9	8,9	15,17		
2Y22LM	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
	1	8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	XX	11,13	20,24	10,12
	12,16	6,9	8,9	15,17		
33CTUQ	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
	1	8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	6,9	8,9	15,17		

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

39NE3X	GlobalFiler™ Express					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
3CL2UZ	GlobalFiler™ Express					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
3GD3ZL	PowerPlex® Fusion 6C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
3RXPTM	Identifiler® Plus					
		23,24		16,17		11,13
1		8,10	15,15			
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	
			6,9	8,9	15,17	
3VD6F9	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
3XZTPM	Identifiler®					
		23,24		16,17		11,13
1		8,10	15,15			
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	
			6,9	8,9	15,17	
3Z77E2	Identifiler® Plus					
		23,24		16,17		11,13
1		8,10	15,15			
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	
			6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

47AEGM	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
49JEHN	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
4AD436	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
4ATRX6	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
4JGKA2	Identifiler® Plus					
		23,24		16,17		11,13
1		8,10	15			
	11,12	9,13		16,19	13,15	
	30,32.2		X	11,13	20,24	
			6,9	8,9	15,17	
4JZ77X	PowerPlex® Fusion 6C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
4W6D7N	Identifiler® ID+					
		23,24		16,17		11,13
1		8,10	15,15			
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	
			6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

4WP2KC	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
62WXJJ	PowerPlex® 21					
	14,16.3	23,24		16,17		11,13
1		8,10	15,15			15,19
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
6FWZVK	PowerPlex® 21					
	14,16.3	23,24		16,17		11,13
1		8,10	15,15			15,19
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
6T3YYP	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
6TGEYJ	Identifiler® Plus					
		23,24		16,17		11,13
1		8,10	15,15			
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	
			6,9	8,9	15,17	
6VPM94	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
7BXXBG	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	



TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

7PYEGH	PowerPlex® 21					
	14,16.3	23,24		16,17		11,13
1	16,18	8,10	15			15,19
	11,12	9,13		16,19	13,15	
	30,30.2		X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
7Y768Z	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
7YMJB4	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
82T7N9	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
87JHLP	Investigator® 24plex					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
89RLHM	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
8AJP63	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

8CMMBN	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
8J6VWY	Identifiler® Plus					
		23,24		16,17		11,13
1		8,10	15			
	11,12	9,13		16,19	13,15	
	30,32.2		X	11,13	20,24	
			6,9	8,9	15,17	
8K27VN	PowerPlex® Fusion 5C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
8ZA8KH	PowerPlex® 21					
	14,16.3	23,24		16,17		11,13
1	16,18	8,10	15,15			15,19
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
97EKLE	PowerPlex® ESI-Fast					
	14,16.3	23,24	10,11	16,17		
1			15,15		13,16	15,19
		9,13		16,19	13,15	
	30,32.2	11,15	X,X		20,24	
			6,9		15,17	
9FKK28	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
9HARL4	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

9JL9YH	PowerPlex® Fusion 5C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
9NXCQ6	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
9RFEU4	Identifiler®					
	N/A	23,24	N/A	16,17	N/A	11,13
1		8,10	15,15	N/A	N/A	N/A
	11,12	9,13	N/A	16,19	13,15	N/A
	30,32.2	N/A	X,X	11,13	20,24	N/A
	N/A	N/A	6,9	8,9	15,17	
9U2H22	Sure ID					
	14,16.3	23,24		16,17		11,13
1		8,10	15,15			15,19
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
A3DUWD	PowerPlex® Fusion 6C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
A4L7FZ	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
A7ETFJ	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

AQJFY3	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	XX	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
AQVERQ	Investigator® 24plex					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	XX	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
ATKLCM	Investigator® 24plex					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	XX	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
AVCFDX	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
AVCKQL	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
B2UDEQ	Investigator® 24plex					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	XX	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
B382FG	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

B6X69N	PowerPlex® Fusion 6C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
B8G6HC	PowerPlex® 21					
	14,16.3	23,24		16,17		11,13
1		8,10	15,15			15,19
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
CA4WDF	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
CDN9RC	PowerPlex® Fusion 6C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
CN6WLB	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
CPXT6C	Identifiler®					
		23,24		16,17		11,13
1		8,10	15,15			
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	
			6,9	8,9	15,17	
CQVW7Z	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

CTW2FE	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
CVM2Z6	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
DA2VME	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
		27.2,28.2	6,9	8,9	15,17	
DMRBZF	PowerPlex® 21					
	14,16.3	23,24		16,17		11,13
1	16,18	8,10	15,15			15,19
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
DQP2WT	Identifiler® Plus					
		23,24		16,17		11,13
1		8,10	15			
	11,12	9,13		16,19	13,15	
	30,32.2		X	11,13	20,24	
			6,9	8,9	15,17	
DV4R9F	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
E2H3TU	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

E4NENA	PowerPlex® 21					
	14,16.3	23,24		16,17		11,13
1	16,18	8,10	15,15			15,19
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
E8TXVH	Investigator® 24plex					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
ECZNXN	PowerPlex® Fusion System					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
EDJBUK	PowerPlex® Fusion 5C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
EMKVWD	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
EQ3VEE	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
EQJB3F	PowerPlex® Fusion 6C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

ERFM8V	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
ET8HRJ	Investigator® 24plex					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
EYCLEW	Identifiler®					
		23,24		16,17		11,13
1		8,10	15			
	11,12	9,13		16,19	13,15	
	30,32.2		X	11,13	20,24	
			6,9	8,9	15,17	
EYYPAR	Identifiler® Plus					
		23,24		16,17		11,13
1		8,10	15			
	11,12	9,13		16,19	13,15	
	30,32.2		X	11,13	20,24	
			6,9	8,9	15,17	
FCKD6B	PowerPlex® 6C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
FELPFG	Investigator® 24plex QS					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
FH4PXH	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	



TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

G2TQ3K	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
	8,10		15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
GD8HTE	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
	8,10		15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
GH48B8	PowerPlex® Fusion 6C					
	14,16.3	23,24	10,11	16,17		11,13
	8,10		15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
GK4KR6	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
	8,10		15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
GNTPPJ	GlobalFiler™ Express					
	14,16.3	23,24	10,11	16,17		11,13
	8,10		15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
	27.2,28.2		6,9	8,9	15,17	
GPXC3M	Identifiler® Plus					
		23,24		16,17		11,13
	8,10		15			
	11,12	9,13		16,19	13,15	
	30,32.2		X	11,13	20,24	
		6,9	8,9	15,17		
GVNRPA	PowerPlex® Fusion 5					
	14,16.3	23,24	10,11	16,17		11,13
	8,10		15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

GVT4EQ	PowerPlex® Fusion 5C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
GWJ98X	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
H2A47M	Identifiler® Plus					
		23,24		16,17		11,13
1		8,10	15			
	11,12	9,13		16,19	13,15	
	30,32.2		X	11,13	20,24	
			6,9	8,9	15,17	
HGZ8LR	PowerPlex® Fusion 6C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
HHVKDQ	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
HRMU69	PowerPlex® Fusion 6C					
	14,16.3	23,24	10,11	16,17	-	11,13
1	-	8,10	15,15	-	13,16	15^
	11,12	9,13	-	16,19	13,15	-
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
J2NMPK	PowerPlex® 5C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

J4ERJR	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
J4V9DK	Identifiler® Plus					
		23,24		16,17		11,13
1		8,10	15			
	11,12	9,13		16,19	13,15	
	30,32.2		X	11,13	20,24	
			6,9	8,9	15,17	
J67XPA	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
J8ULYP	Identifiler® ID Plus					
	-	23,24	-	16,17	-	11,13
1	-	8,10	15	-	-	-
	11,12	9,13	-	16,19	13,15	-
	30,32.2	-	X,X	11,13	20,24	-
	-	-	6,9	8,9	15,17	
J8W6A8	Identifiler® Plus					
		23,24		16,17		11,13
1		8,10	15,15			
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	
			6,9	8,9	15,17	
JBWFWU	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
JDKUL4	PowerPlex® Fusion 6C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

JFLZZA	PowerPlex® FUSION					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
JN3D4F	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
JU93KM	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
JXR4NM	PowerPlex® Fusion 6C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
KE7344	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
KH87VQ	Identifiler®, Investigator® 24plex QS					
	14,16.3	23,24	10,11	16,17	N/A	11,13
1	N/A	8,10	15,15	N/A	13,16	15,19
	11,12	9,13	N/A	16,19	13,15	N/A
	30,32.2	11,15	X,X	11,13	20,24	N/A
	N/A	27.2,28.2	6,9	8,9	15,17	
KKWCFM	Identifiler® Plus					
		23,24		16,17		11,13
1		8,10	15			
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	
			6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

KLVBVP						
1	14,16.3	23,24	10,11	16,17		11,13
		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
LKQH82 PowerPlex® Fusion						
1	14,16.3	23,24	10,11	16,17		11,13
		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
LNXXN9 PowerPlex® Fusion 5c						
1	14,16.3	23,24	10,11	16,17		11,13
		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
LT72UL Identifiler® Plus						
1	-	23,24	-	16,17	-	11,13
	-	8,10	15	-	-	-
	11,12	9,13	-	16,19	13,15	-
	30,32.2	-	X,X	11,13	20,24	-
	-	-	6,9	8,9	15,17	
LT8XZB PowerPlex® Fusion 6C						
1	14,16.3	23,24	10,11	16,17		11,13
		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
LUHVDT PowerPlex® Fusion						
1	14,16.3	23,24	10,11	16,17		11,13
		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
LYDP8N Identifiler® Plus						
1	-	23,24	-	16,17	-	11,13
	-	8,10	15	-	-	-
	11,12	9,13	-	16,19	13,15	-
	30,32.2	-	X,X	11,13	20,24	-
	-	-	6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

M2D9V8	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
M8Y7FN	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
ML62W6	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
MNQ3GJ	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
MTGH2K	Identifiler® Plus					
		23,24		16,17		11,13
1		8,10	15			
	11,12	9,13		16,19	13,15	
	30,32.2		X	11,13	20,24	
			6,9	8,9	15,17	
MXAMUN	Identifiler®, Investigator® 24plex QS					
	14,16.3	23,24	10,11	16,17	N/A	11,13
1	N/A	8,10	15,15	N/A	13,16	15,19
	11,12	9,13	N/A	16,19	13,15	N/A
	30,32.2	11,15	X,X	11,13	20,24	N/A
	N/A	27.2,28.2	6,9	8,9	15,17	
NJ7KT8	PowerPlex® Fusion 6C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

NURKRP	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
P96EEY	PowerPlex® Fusion 6C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
PD2YK4	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
PPUKND	Identifiler® Plus					
		23,24		16,17		11,13
1		8,10	15,15			
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	
			6,9	8,9	15,17	
PQ83T6	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
Q23RVX	Identifiler®					
		23,24		16,17		11,13
1		8,10	15,15			
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	
			6,9	8,9	15,17	
Q498BG	PowerPlex® 21					
	14,16.3	23,24	-	16,17	-	11,13
1	16,18	8,10	15,15	-	-	15,19
	11,12	9,13	-	16,19	13,15	-
	30,32.2	-	X,X	11,13	20,24	10,12
	12,16	-	6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

Q6MC9E	Identifiler® Plus					
		23,24		16,17		11,13
1		8,10	15			
		11,12	9,13	16,19	13,15	
		30,32.2	X	11,13	20,24	
			6,9	8,9	15,17	
Q934Z8	GlobalFiler™ Express					
		14,16.3	23,24	10,11	16,17	11,13
1		8,10	15,15		13,16	15,19
		11,12	9,13	16,19	13,15	
		30,32.2	11,15	X,X	11,13	20,24
		27.2,28.2	6,9	8,9	15,17	
QFGX8W	PowerPlex® 21					
		14,16.3	23,24		16,17	11,13
1		16,18	8,10	15,15		15,19
		11,12	9,13	16,19	13,15	
		30,32.2	X,X	11,13	20,24	10,12
		12,16	6,9	8,9	15,17	
QTT723	GlobalFiler™					
		14,16.3	23,24	10,11	16,17	11,13
1		8,10	15		13,16	15,19
		11,12	9,13	16,19	13,15	
		30,32.2	11,15	X	11,13	20,24
		27.2,28.2	6,9	8,9	15,17	
QXKKKH	PowerPlex® Fusion 5C					
		14,16.3	23,24	10,11	16,17	11,13
1		8,10	15		13,16	15,19
		11,12	9,13	16,19	13,15	
		30,32.2	11,15	X	11,13	20,24
		12,16	6,9	8,9	15,17	
R2EJQZ	PowerPlex® Fusion					
		14,16.3	23,24	10,11	16,17	11,13
1		8,10	15,15		13,16	15,19
		11,12	9,13	16,19	13,15	
		30,32.2	11,15	X,X	11,13	20,24
		12,16	6,9	8,9	15,17	
RBMFAX	PowerPlex® Fusion 5C					
		14,16.3	23,24	10,11	16,17	11,13
1		8,10	15		13,16	15,19
		11,12	9,13	16,19	13,15	
		30,32.2	11,15	X	11,13	20,24
		12,16	6,9	8,9	15,17	



TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

TCC2KZ	GlobalFiler™ Express					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
TCDUFM	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
TDTZXX	PowerPlex® FUSION 5C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
TE3ZZJ	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
TT32DK	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
TYPUKD	Identifiler® Plus					
		23,24		16,17		11,13
1		8,10	15			
	11,12	9,13		16,19	13,15	
	30,32.2		X	11,13	20,24	
			6,9	8,9	15,17	
TZ6T3G	PowerPlex® FUSION, GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

U6Q97E	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
UFCE2X	Investigator® 24plex					
	14,16.3	23,24	10,11	16,17	-	11,13
1		8,10	15		13,16	15,19
	11,12	9,13	-	16,19	13,15	-
	30,32.2	11,15	X	11,13	20,24	-
	-	27.2,28.2	6,9	8,9	15,17	
UFNB73	PowerPlex® Fusion 6C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
UGZ2DL	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
ULH79A	Identifiler®					
		23,24		16,17		11,13
1		8,10	15,15			
	11,12	9,13		16,19	13,15	
	30,32.2			11,13	20,24	
			6,9	8,9	15,17	
V3JBBC	Identifiler® Plus					
	-	23,24	-	16,17	-	11,13
1		8,10	15			
	11,12	9,13	-	16,19	13,15	-
	30,32.2	-	X,X	11,13	20,24	-
	-	-	6,9	8,9	15,17	
V7W9HY	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

V8EYT6	GlobalFiler™ Express					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
V8TQFU	PowerPlex® Fusion 5C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
V9LE3W	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
VBWCHY	PowerPlex® Fusion 5C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
VEQF26	Investigator® 24plex QS					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
VGHA3F	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
VJ8GMC	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

VNHVPA	Identifiler® Plus					
		23,24		16,17		11,13
1		8,10	15,15			
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	
			6,9	8,9	15,17	
VTUEDH	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
VUQ3NZ	PowerPlex® Fusion 6C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
VWVMF8	PowerPlex® Fusion 5C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
VXBXEZ	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
W7Z6CV	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
W8B2UT	PowerPlex® Fusion 5C					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

WDD2BB	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
	8,10		15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
	27.2,28.2	6,9	8,9	15,17		
WPUTYK	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
	8,10		15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	6,9	8,9	15,17		
WQJ4RX	PowerPlex® Fusion 6C					
	14,16.3	23,24	10,11	16,17		11,13
	8,10		15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
WWWVPH	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
	8,10		15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	6,9	8,9	15,17		
WYE2J8	PowerPlex® Fusion 5C					
	14,16.3	23,24	10,11	16,17		11,13
	8,10		15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16	6,9	8,9	15,17		
X3B89W	PowerPlex® Fusion 6C					
	14,16.3	23,24	10,11	16,17		11,13
	8,10		15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	
XATHMX	PowerPlex® Fusion 6C					
	14,16.3	23,24	10,11	16,17		11,13
	8,10		15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	27.2,28.2	6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

XEMBY2	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
	1	8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
	27.2,28.2	6,9	8,9	15,17		
XL3CXB	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
	1	8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
	27.2,28.2	6,9	8,9	15,17		
XMJBC9	Identifiler® Plus					
		23,24		16,17		11,13
	1	8,10	15			
	11,12	9,13		16,19	13,15	
	30,32.2		X	11,13	20,24	
		6,9	8,9	15,17		
XNPY8P	PowerPlex® 21					
	14,16.3	23,24		16,17		11,13
	1	16,18	8,10	15,15		15,19
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	10,12
	12,16	6,9	8,9	15,17		
XREW8H	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
	1	8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16	6,9	8,9	15,17		
XW4G9C	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
	1	8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
	27.2,28.2	6,9	8,9	15,17		
Y3NWEV	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
	1	8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16	6,9	8,9	15,17		

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

Y4KCN7	Identifiler®					
		23,24		16,17		11,13
1		8,10	15,15			
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	
			6,9	8,9	15,17	
Y7TP9T	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
Y9EMKQ	Identifiler® Plus					
		23,24		16,17		11,13
1		8,10	15,15			
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	
			6,9	8,9	15,17	
YBLQA9	Identifiler® Plus					
		23,24		16,17		11,13
1		8,10	15			
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	
			6,9	8,9	15,17	
YBZDLV	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
YP2PJF	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
Z6T7JX	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 1 - STR Results

Z7K6UP	Investigator® 24plex					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
ZFRVLR	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
ZMDNXR	PowerPlex® 21					
	14,16.3	23,24		16,17		11,13
1	16,18	8,10	15,15			15,19
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
ZMWJGE	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
1		8,10	15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
ZTV668	Identifiler® Plus					
		23,24		16,17		11,13
1		8,10	15			
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	
			6,9	8,9	15,17	



TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

22NZHW	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
28V8JU	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
2EDUUQ	PowerPlex® fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
2M4F2A	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
2UPB3D	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
2Y22LM	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
33CTUQ	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

39NE3X	GlobalFiler™ Express					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
3CL2UZ	GlobalFiler™ Express					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
3GD3ZL	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
3RXPTM	Identifiler® Plus					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	
3VD6F9	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
3XZTPM	Identifiler®					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	
3Z77E2	Identifiler® Plus					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

47AEGM	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
49JEHN	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
4AD436	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
4ATRX6	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
4JGKA2	Identifiler® Plus					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
4JZ77X	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	16,34.2	6,8	8,8	16,16	
4W6D7N	Identifiler® ID+					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

4WP2KC	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
62WXJJ	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
2		10,13	13,15			18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
6FWZVK	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
2		10,13	13,15			18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
6T3YYP	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
6TGEYJ	Identifiler® Plus					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	
6VPM94	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
7BXXBG	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

7PYEGH	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
2	11,12	10,13	13,15			18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12		6,8	8	16	
7Y768Z	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
7YMJB4	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
82T7N9	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
87JHLP	Investigator® 24plex					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
89RLHM	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
8AJP63	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

8CMMBN	PowerPlex® FUSION					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
8J6VWY	Identifiler® Plus					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
8K27VN	PowerPlex® Fusion 5C					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
8ZA8KH	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
2	11,12	10,13	13,15			18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
97EKLE	PowerPlex® ESI-Fast					
	16.3,17	17,23	11.3,14	15,17		
2			13,15		11,13	18.3,20
		10,14		13,17	13,14	
	32,32.2	11,16	X,Y		22,23	
			6,8		16,16	
9FKK28	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
9HARL4	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

9JL9YH	PowerPlex® Fusion 5C					
	16,3,17	17,23	11,3,14	15,17		11,13
2		10,13	13,15		11,13	18,3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
9NXCQ6	GlobalFiler™					
	16,3,17	17,23	11,3,14	15,17		11,13
2		10,13	13,15		11,13	18,3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
9RFEU4	Identifiler®					
	N/A	17,23	N/A	15,17	N/A	11,13
2	N/A	10,13	13,15	N/A	N/A	N/A
	10,11	10,14	N/A	13,17	13,14	N/A
	32,32.2	N/A	X,Y	11,13	22,23	N/A
	N/A	N/A	6,8	8,8	16,16	
9U2H22	Sure ID					
	17,17	17,23		15,17		11,13
2	11,12	10,13	13,15			18,3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
A3DUWD	PowerPlex® Fusion 6C					
	16,3,17	17,23	11,3,14	15,17		11,13
2		10,13	13,15		11,13	18,3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
A4L7FZ	GlobalFiler™					
	16,3,17	17,23	11,3,14	15,17		11,13
2		10,13	13,15		11,13	18,3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
A7ETFJ	GlobalFiler™					
	16,3,17	17,23	11,3,14	15,17		11,13
2		10,13	13,15		11,13	18,3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

AQJFY3	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
AQVERQ	Investigator® 24plex					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
ATKLCM	Investigator® 24plex					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
AVCFDX	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
AVCKQL	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
B2UDEQ	Investigator® 24plex					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
B382FG	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	



TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

B6X69N	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	16,34.2	6,8	8,8	16,16	
B8G6HC	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
2		10,13	13,15			18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
CA4WDF	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
CDN9RC	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
CN6WLB	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
CPXT6C	Identifiler®					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	
CQVW7Z	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

CTW2FE	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
CVM2Z6	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
DA2VME	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
DMRBZF	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
2		10,13	13,15			18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
DQP2WT	Identifiler® Plus					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
DV4R9F	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
E2H3TU	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

E4NENA	PowerPlex® 21					
	16,3,17	17,23		15,17		11,13
2	11,12	10,13	13,15			18,3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
E8TXVH	Investigator® 24plex					
	16,3,17	17,23	11,3,14	15,17		11,13
2		10,13	13,15		11,13	18,3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
ECZNXN	PowerPlex® Fusion System					
	16,3,17	17,23	11,3,14	15,17		11,13
2		10,13	13,15		11,13	18,3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
EDJBUK	PowerPlex® Fusion 5C					
	16,3,17	17,23	11,3,14	15,17		11,13
2		10,13	13,15		11,13	18,3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
EMKVWD	PowerPlex® Fusion					
	16,3,17	17,23	11,3,14	15,17		11,13
2		10,13	13,15		11,13	18,3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
EQ3VEE	PowerPlex® Fusion					
	16,3,17	17,23	11,3,14	15,17		11,13
2		10,13	13,15		11,13	18,3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
EQJB3F	PowerPlex® Fusion 6C					
	16,3,17	17,23	11,3,14	15,17		11,13
2		10,13	13,15		11,13	18,3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

ERFM8V	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
ET8HRJ	Investigator® 24plex					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
EYCLEW	Identifiler®					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
EYYPAR	Identifiler® Plus					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	18	16	
FCKD6B	PowerPlex® 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	16,34.2	6,8	8,8	16,16	
FELPFG	Investigator® 24plex QS					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
FH4PXH	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

G2TQ3K	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
GD8HTE	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
GH48B8	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
GK4KR6	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
GNTPPJ	GlobalFiler™ Express					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
GPXC3M	Identifiler® Plus					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
GVNRPA	PowerPlex® Fusion 5					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

GVT4EQ	PowerPlex® Fusion 5c					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
GWJ98X	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
H2A47M	Identifiler® Plus					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
HGZ8LR	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	16,34.2	6,8	8,8	16,16	
HHVKDQ	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
HRMU69	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17	-	13 ^
2	-	10,13	13,15	-	11,13	18.3,20
	10,11	10,14	-	13,17	13,14	-
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	16,34.2	6,8	8,8	16,16	
J2NMPK	PowerPlex® 5C					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

J4ERJR	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
J4V9DK	Identifiler® Plus					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
J67XPA	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
J8ULYP	Identifiler® ID Plus					
	-	17,23	-	15,17	-	11,13
2	-	10,13	13,15	-	-	-
	10,11	10,14	-	13,17	13,14	-
	32,32.2	-	X,Y	11,13	22,23	-
	-	-	6,8	8	16	
J8W6A8	Identifiler® Plus					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	
JBWFWU	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
JDKUL4	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

JFLZZA	PowerPlex® FUSION					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
JN3D4F	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
JU93KM	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
JXR4NM	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
KE7344	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
KH87VQ	Identifiler®, Investigator® 24plex QS					
	16.3,17	17,23	11.3,14	15,17	N/A	11,13
2	N/A	10,13	13,15	N/A	11,13	18.3,20
	10,11	10,14	N/A	13,17	13,14	N/A
	32,32.2	11,16	X,Y	11,13	22,23	N/A
	N/A	16,34.2	6,8	8,8	16,16	
KKWCFM	Identifiler® Plus					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	



TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

KLVBVP	PowerPlex® Fusion 6C					
		16.3,17	17,23	11.3,14	15,17	11,13
	2		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12	16,34.2	6,8	8	16	8,10
LKQH82	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	2		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12,12		6,8	8,8	16,16	8,10
LNXXN9	PowerPlex® Fusion 5c					
		16.3,17	17,23	11.3,14	15,17	11,13
	2		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12,12		6,8	8,8	16,16	8,10
LT72UL	Identifiler® Plus					
		-	17,23	-	15,17	-
	2		10,13	13,15	-	-
		10,11	10,14	-	13,17	13,14
		32,32.2	-	X,Y	11,13	22,23
	-	-	6,8	8	16	-
LT8XZB	PowerPlex® Fusion 6C					
		16.3,17	17,23	11.3,14	15,17	11,13
	2		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12	16,34.2	6,8	8	16	8,10
LUHVDT	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	2		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12		6,8	8	16	8,10
LYDP8N	Identifiler® Plus					
		-	17,23	-	15,17	-
	2		10,13	13,15	-	-
		10,11	10,14	-	13,17	13,14
		32,32.2	-	X,Y	11,13	22,23
	-	-	6,8	8	16	-

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

M2D9V8	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
M8Y7FN	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
ML62W6	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
MNQ3GJ	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
MTGH2K	Identifiler® Plus					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
MXAMUN	Identifiler®, Investigator® 24plex QS					
	16.3,17	17,23	11.3,14	15,17	N/A	11,13
2	N/A	10,13	13,15	N/A	11,13	18.3,20
	10,11	10,14	N/A	13,17	13,14	N/A
	32,32.2	11,16	X,Y	11,13	22,23	N/A
	N/A	16,34.2	6,8	8,8	16,16	
NJ7KT8	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

NURKRP	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
P96EEY	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
PD2YK4	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
PPUKND	Identifiler® Plus					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	
PQ83T6	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
Q23RVX	Identifiler®					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	
Q498BG	PowerPlex® 21					
	16.3,17	17,23	-	15,17	-	11,13
2		10,13	13,15	-	-	18.3,20
	10,11	10,14	-	13,17	13,14	-
	32,32.2	-	X,Y	11,13	22,23	8,10
	12,12	-	6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

Q6MC9E	Identifiler® Plus	17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
Q934Z8	GlobalFiler™ Express	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
QFGX8W	PowerPlex® 21	17,23		15,17		11,13
2		10,13	13,15			18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
QTT723	GlobalFiler™	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
QXKKKH	PowerPlex® Fusion 5C	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
R2EJQZ	PowerPlex® Fusion	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
RBMFAX	PowerPlex® Fusion 5C	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

TCC2KZ	GlobalFiler™ Express					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
TCDUFM	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
TDTZXX	PowerPlex® FUSION 5C					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
TE3ZZJ	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
TT32DK	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
TYPUKD	Identifiler® Plus					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
TZ6T3G	PowerPlex® FUSION, GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

U6Q97E	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
UFCE2X	Investigator® 24plex					
	16.3,17	17,23	11.3,14	15,17	-	11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14	-	13,17	13,14	-
	32,32.2	11,16	X,Y	11,13	22,23	-
	-	16,34.2	6,8	8	16	
UFNB73	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
UGZ2DL	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
ULH79A	Identifiler®					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2			11,13	22,23	
			6,8	8,8	16,16	
V3JBBC	Identifiler® Plus					
	-	17,23	-	15,17	-	11,13
2		10,13	13,15			
	10,11	10,14	-	13,17	13,14	-
	32,32.2	-	X,Y	11,13	22,23	-
	-	-	6,8	8	16	
V7W9HY	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

V8EYT6	GlobalFiler™ Express					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
V8TQFU	PowerPlex® Fusion 5C					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
V9LE3W	PowerPlex® fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
VBWCHY	PowerPlex® Fusion 5C					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
VEQF26	Investigator® 24plex QS					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
VGHA3F	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
VJ8GMC	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

VNHVPA	Identifiler® Plus	17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	
VTUEDH	GlobalFiler™	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
VUQ3NZ	PowerPlex® Fusion 6C	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
VWVMF8	PowerPlex® Fusion 5C	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
VXBXEZ	GlobalFiler™	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
W7Z6CV	GlobalFiler™	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
W8B2UT	PowerPlex® Fusion 5C	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	



TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

WDD2BB	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	2	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8	16		
WPUTYK	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	2	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	6,8	8	16		
WQJ4RX	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
	2	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
WWWVPH	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	2	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	6,8	8	16		
WYE2J8	PowerPlex® Fusion 5C					
	16.3,17	17,23	11.3,14	15,17		11,13
	2	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	6,8	8,8	16,16		
X3B89W	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
	2	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
XATHMX	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
	2	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

XEMBY2	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	2	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8,8	16,16		
XL3CXB	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	2	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8,8	16,16		
XMJBC9	Identifiler® Plus					
		17,23		15,17		11,13
	2	10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
		6,8	8	16		
XNPY8P	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
	2	11,12	10,13	13,15		18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12	6,8	8,8	16,16		
XREW8H	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	2	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	6,8	8	16		
XW4G9C	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	2	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8,8	16,16		
Y3NWEV	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	2	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	6,8	8,8	16,16		

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

Y4KCN7	Identifiler®					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	
Y7TP9T	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
Y9EMKQ	Identifiler® Plus					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	
YBLQA9	Identifiler® Plus					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
YBZDLV	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
YP2PJF	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
Z6T7JX	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
2		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 2 - STR Results

Z7K6UP	Investigator® 24plex					
	16,3,17	17,23	11,3,14	15,17		11,13
2		10,13	13,15		11,13	18,3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
ZFRVLR	GlobalFiler™					
	16,3,17	17,23	11,3,14	15,17		11,13
2		10,13	13,15		11,13	18,3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
ZMDNXR	PowerPlex® 21					
	16,3,17	17,23		15,17		11,13
2		10,13	13,15			18,3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
ZMWJGE	PowerPlex® Fusion					
	16,3,17	17,23	11,3,14	15,17		11,13
2		10,13	13,15		11,13	18,3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
ZTV668	Identifiler® Plus					
		17,23		15,17		11,13
2		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3 - STR Results

EDJBUK	PowerPlex® Fusion 5C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3		8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
JXR4NM	PowerPlex® Fusion 6C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3		8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	
MTGH2K	Identifiler® Plus					
		17,23,[24]		15,[16],17		11,13
3		[8],10,13	13,15			
	10,11,[12]	[9],10,[13],14		13,[16],17,[19]	13,14,[15]	
	[30],32,32.2		X,Y	11,13	[20],22,23,[24]	
			6,8,[9]	8,[9]	[15],16,[17]	
ULH79A	Identifiler®					
		17,23		15,17		11,13
3		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2			11,13	22,23	
			6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

22NZHW	GlobalFiler™					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	
		16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	
28V8JU	PowerPlex® Fusion					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
2EDUUQ	PowerPlex® fusion					
	14,16.3	[17],23,24	10,11,[11.3]	[15],16,17		11,13
3e		8,10,[13]	[13],15,15		13,16	15,19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,32.2	11,15	X,X,[Y]	11,13	20,[22],24	[8],10,12
	12,16		6,[8],9	8,9	15,[16],17	
2M4F2A	GlobalFiler™					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
3e		8,10,[13]	[13],15,15		[11],13,16	15,19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,X,[Y]	11,13	20,[22],[23],24	
		[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17	
2UPB3D	PowerPlex® Fusion					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
2Y22LM	PowerPlex® Fusion					
	14,16.3	(17),23,24	10,11,(11.3),(14)	(15),16,17		11,13
3e		8,10,(13)	(13),15		(11),13,16	15,19,(20)
	(10),11,12	9,(10),13,(14)		(13),16,(17),19	13,(14),15	
	30,(32),32.2	11,15	X,(Y)	11,13	20,(22),(23),24	(8),10,12
	12,16		6,(8),9	8,9	15,(16),17	
33CTUQ	PowerPlex® Fusion					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

39NE3X	GlobalFiler™					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	
		16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	
3CL2UZ	GlobalFiler™ Express					
	14,16.3	23,24	10,11	16,17		11,13
3e		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
		27.2,28.2	6,9	8,9	15,17	
3GD3ZL	PowerPlex® Fusion 6C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	
3RXPTM	Identifiler® Plus					
		17,23,24		16,17		11,13
3e		8,10,13	13,15			
	11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2		X,Y	11,13	20,22,23,24	
			6,8,9	8,9	15,16,17	
3VD6F9	GlobalFiler™					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
3e		8,10,[13]	[13],15		[11],13,16	15,19,[20]
	[10],11,12	9,13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24	
		27.2,28.2	6,[8],9	8,9	15,[16],17	
3XZTPM	Identifiler®					
		23,24		15,16,17		11,13
3e		8,10	15,15			
	11,12	9,10,13,14		16,17,19	13,15	
	30,32.2		X,X	11,13	20,24	
			6,8,9	8,9	15,16,17	
3Z77E2	Identifiler® Plus					
		17,[23],[24]		15,[16],[17]		[11],[13]
3e		[8],[10],13	13,[15]			
	10,[11],[12]	[9],10,[13],14		13,[16],17,[19]	[13],14,[15]	
	[30],32,[32.2]		X,Y	[11],[13]	[20],22,23,[24]	
			[6],8,[9]	8,9	[15],16,[17]	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

47AEGM	PowerPlex® Fusion					
	14,16.3	[17],23,24	10,11,[14]	[15],16,17		11,13
3e		8,10	[13],15,15		13,16	15,19,[20]
	11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,X,[Y]	11,13	20,[22],[23],24	10,12
	12,16		6,[8],9	8,9	15,[16],17	
49JEHN	PowerPlex® Fusion					
	14,16.3	23,24	10,11,[11.3]	[15],16,17		11,13
3e		8,10,[13]	[13],15		13,16	15,19,[20]
	[10],11,12	9,13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[23],24	[8],10,12
	12,16		6,[8],9	8,9	15,[16],17	
4AD436	PowerPlex® Fusion					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
4ATRX6	PowerPlex® Fusion					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
4JGKA2	Identifiler® Plus					
		17,23,24		15,16,17		11,12,13
3e		8,10,13	13,15			
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2		X,Y	11,13	20,22,23,24	
			6,8,9	8,9	15,16,17	
4JZ77X	PowerPlex® Fusion 6C					
	14,16.3	[17],23,24	10,11,[11.3,14]	[15],16,17		11,13
3e		8,10	[13],15,15		[11],13,16	15,19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,X,[Y]	11,13	20,[22,23],24	[8],10,12
	12,16	[16],27.2,28.2	6,[8],9	8,9	15,[16],17	
4W6D7N	Identifiler® ID+					
		17,23,24		15,16,17		11,13
3e		8,10,13	13,15			
	11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2		X,Y	11,13	20,22,23,24	
			6,8,9	8,9	15,16,17	



TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

4WP2KC	PowerPlex® Fusion					
	14,16.3	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
62WXJJ	PowerPlex® 21					
	14,16.3	23,24		16,17		11,13
3e	16,18	8,10	15,15			15,19
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
6FWZVK	PowerPlex® 21					
	14,16.3	23,24		16,17		11,13
3e	16,18	8,10	15,15			15,19
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
6T3YYP	PowerPlex® Fusion					
	14,16.3,(17)	(17),23,24	10,11,(11.3)	16,17		11,13
3e		8,10,(13)	(13),15		(11),13,16	15,19,(20)
	11,12	9,(10),13,(14)		(13),16,(17),19	13,(14),15	
	30,(32),32.2	11,15	X,(Y)	11,13	20,(22),(23),24	10,12
	12,16		6,(8),9	8,9	15,(16),17	
6TGEYJ	Identifiler® Plus					
		17,23,24		15,16,17		11,13
3e		8,10,13	13,15			
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2		X,Y	11,13	20,22,23,24	
			6,8,9	8,9	15,16,17	
6VPM94	PowerPlex® Fusion					
	14,16.3	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
7BXXBG	PowerPlex® Fusion					
	14,16.3,[17]	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
3e		8,10	[13],15,15		[11],13,16	15,19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,X,[Y]	11,13	20,[22],[23],24	[8],10,12
	12,16		6,[8],9	8,9	15,[16],17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

7PYEGH	PowerPlex® 21					
	14,16.3	23,24		16,17		11,13
3e	16,18	8,10	15			15,19
	11,12	9,13		16,19	13,15	
	30,32.2		X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
7Y768Z	GlobalFiler™					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
3e		8,10,[13]	[13],15		[11],13,16	15,19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24	
		[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17	
7YMJB4	GlobalFiler™					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
3e		8,10,[13]	[13],15,15		[11],13,16	15,[18.3],19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,X,[Y]	11,13	20,[22],[23],24	
		[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17	
82T7N9	PowerPlex® Fusion					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
87JHLP	Investigator® 24plex					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
3e		8,10,[13]	15		[11],13,16	15,19
	11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22],24	
		[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17	
89RLHM	GlobalFiler™					
	14,16.3	17,23,24	10,11,[11.3],[14]	[15],16,17		11,13
3e		8,10,[13]	[13],15		[11],13,16	15,[18.3],19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24	
		[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17	
8AJP63	GlobalFiler™					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
3e		8,10,[13]	[13],15,15		[11],13,16	15,[18.3],19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,X,[Y]	11,13	20,[22],[23],24	
		[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

8CMMBN	PowerPlex® FUSION					
	14,16.3,[17]	[17],23,24	10,11,[11.3,14]	[15],16,17		11,13
3e		8,10,[13]	[13],15,15		13,16	15,19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,X,[Y]	11,13	20,[22,23],24	[8],10,12
	12,16		6,[8],9	8,9	15,[16],17	
8J6VWY	Identifiler® Plus					
		17,23,24		15,16,17		10,11,12,13
3e		8,10	13,15			
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2		X,Y	11,13	20,23,24	
			6,8,9	8,9	15,16,17	
8K27VN	PowerPlex® Fusion 5C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
8ZA8KH	PowerPlex® 21					
	14,16.3,17	17,19,23,24		15,16,17		11,13
3e	11,12,16,18	8,10,13	13,15			15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2		X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
97EKLE	PowerPlex® ESI-Fast					
	14,16.3	23,24	10,11	16,17		
3e			15,15		13,16	15,19
		9,13		16,19	13,15	
	30,32.2	11,15	X,X		20,24	
			6,9		15,17	
9FKK28	PowerPlex® Fusion					
	14,16.3	17,23,24	10,11,11.3,14	16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,13,14		13,16,17,19	13,15	
	30,32,32.2	11,15	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
9HARL4	PowerPlex® Fusion					
	14,16.3	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15	X,Y	11,13	20,22,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

9JL9YH	PowerPlex® Fusion 5C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15	X,Y	11,13	20,22,23,24	8,10,12
	12,16	6,8,9	8,9	15,16,17		
9NXCQ6	GlobalFiler™					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
	3e	8,10,[13]	[13],15		[11],13,16	15,[18.3],19
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24	
	[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17		
9RFEU4	Identifiler®					
	N/A	[17],23,24	N/A	[15],16,17	N/A	11,13
	3e	8,10,[13]	[13],15	N/A	N/A	N/A
	[10],11,12	9,[10],13,[14]	N/A	[13],16,[17],19	13,[14],15	N/A
	30,[32],32.2	N/A	X,[Y]	11,13	20,[22],[23],24	N/A
	N/A	6,[8],9	8,9	15,[16],17		
9U2H22	Sure ID					
	14,16.3	23,24		16,17		11,13
	3e	8,10	15,15			15,19
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	10,12
	12,16	6,9	8,9	15,17		
A3DUWD	PowerPlex® Fusion 6C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	
A4L7FZ	GlobalFiler™					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
	3e	8,10,[13]	[13],15,15		[11],13,16	15,19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,X,[Y]	11,13	20,[22],[23],24	
	[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17		
AQJFY3	GlobalFiler™					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
	3e	8,10,13	[13],15		[11],13,16	15,19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,19	13,[14],15	
	30,[32],32.2	11,15,16	X,[Y]	11,13	20,[22],[23],24	
	[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17		

TABLE 1

WebCode	Amplification Kits					
	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
Item	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

AQVERQ	Investigator® 24plex					
	14,16.3	23,24	10,11,[11.3],[14]	[15],16,17		11,13
3e		8,10,[13]	[13],15		[11],13,16	15,19
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24	
		[16],27.2,28.2	6,9	8,9	15,[16],17	
ATKLCM	Investigator® 24plex					
	14,16.3	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10	15		11,13,16	15,19,20
	11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,24	
		16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	
AVCFDX	GlobalFiler™					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
3e		8,10,[13]	[13],15		[11],13,16	15,[18.3],19,[20]
	[10],11,12	9,[10],13		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24	
		[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17	
AVCKQL	PowerPlex® Fusion					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
B2UDEQ	Investigator® 24plex					
	14,16.3	23,24	10,11,[11.3,14]	16,17		11,13
3e		8,10,[13]	15,15		[11],13,16	15,19,[20]
	11,12	9,[10],13,[14]		[13],16,[17],19	13,15	
	30,32.2	11,15,[16]	X,X,[Y]	11,13	20,24	
		[16],27.2,28.2	6,[8],9	8,9	15,17	
B382FG	PowerPlex® Fusion					
	14,16.3	23,24	10,11	16,17		11,13
3e		8,10,[13]	[13],15		13,16	15,19
	11,12	9,[10],13		16,19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22],24	10,12
	12,16		6,[8],9	8,9	15,[16],17	
B6X69N	PowerPlex® Fusion 6C					
	14,16.3	23,24	10,11,[11.3]	[15],16,17		11,13
3e		8,10	[13],15		[11],13,16	15,19,[20]
	[10],11,12	9,13,[14]		16,19	13,[14],15	
	30,32.2	11,15	X,X	11,13	20,[22],[23],24	10,12
	12,16	27.2,28.2	6,[8],9	8,9	15,[16],17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

B8G6HC	PowerPlex® 21					
	14,16.3	23,24		16,17		11,13
3e	16,18	8,10	15,15			15,19
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
CA4WDF	PowerPlex® Fusion					
	14,16.3	17,23,24	10,11,11.3	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15	X,Y	11,13	20,22,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
CDN9RC	PowerPlex® Fusion 6C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	
CN6WLB	GlobalFiler™					
	14,16.3	[17],23,24	10,11,[11.3,14]	[15],16,17		11,13
3e		8,10,[13]	[13],15		[11],13,16	15,[18.3],19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22,23],24	
		[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,16,17	
CPXT6C	Identifiler®					
		17,23,24		15,16,17		11,13
3e		8,10,13	13,15			
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2		X,Y	11,13	20,22,23,24	
			6,8,9	8,9	15,16,17	
CQVW7Z	PowerPlex® Fusion					
	14,16.3	17,23,24	10,11,14	16,17		11,13
3e		8,10	13,15		11,13,16	15,19
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15	X,Y	11,13	20,22,23,24	10,12
	12,16		6,8,9	8,9	15,16,17	
CTW2FE	PowerPlex® Fusion					
	14,16.3,[17]	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
3e		8,10,[13]	[13],15,15		[11],13,16	15,19,[20]
	11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,X,[Y]	11,13	20,[22,23],24	[8],10,12
	12,16		6,[8],9	8,9	15,[16],17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

CVM2Z6	PowerPlex® Fusion					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
DA2VME	Identifiler®					
		[17],23,24		[15],16,17		11,13
	3e	8,10,[13]	[13],15			
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2		X,[Y]	11,13	20,[22],[23],24	
		6,[8],9	8,9	15,[16],17		
DMRBZF	PowerPlex® 21					
	14,16.3,17	17,23,24		15,16,17		11,13
	3e	11,12,16,18	8,10,13	13,15		15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2		X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
DQP2WT	Identifiler® Plus					
		23,24		15,16,17		11,12,13
	3e	8,10	13,15			
	10,11,12	9,13,14		13,16,17,19	13,14,15	
	30,32.2		X,Y	11,13	20,22,23,24	
		6,8,9	8,9	15,16,17		
E2H3TU	GlobalFiler™					
	14,16.3	[17],23,24	10,11,[11.3]	[15],16,17		11,13
	3e	8,10,[13]	[13],15,15		[11],13,16	15,19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,X,[Y]	11,13	20,[22],[23],24	
	[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17		
E4NENA	PowerPlex® 21					
	14,16.3	23,24		16,17		11,13
	3e	16,18	8,10	15,15		15,19
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
E8TXVH	Investigator® 24plex					
	14,16.3	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16,17	X,Y	11,13	20,22,23,24	
	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17		

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

ECZNXX	PowerPlex® Fusion System					
	14,16.3	23,24	10,11	16,17		11,13
3e		8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	10,12
	12,16		6,9	8,9	15,17	
EMKVWD	PowerPlex® Fusion					
	14,16.3	23,24	10,11,11.3	15,16,17		11,13
3e		8,10,13	13,15		13,16	15,19,20
	11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
EQ3VEE	PowerPlex® Fusion					
	14,16.3	[17],23,24	10,11,[14]	[15],16,17		11,13
3e		8,10	[13],15		[11],13,16	15,19,[20]
	11,12	9,[10],13,[14]		[13],16,[17],19	13,15	
	30,[32],32.2	11,15	X,[Y]	11,13	20,[22],[23],24	[8],10,12
	12,16		6,[8],9	8,9	15,16,17	
EQJB3F	PowerPlex® Fusion 6C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	
ERFM8V	GlobalFiler™					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
3e		8,10,[13]	[13],15		[11],13,16	15,19,[20]
	11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24	
		[16],27.2,28.2,[34.2]	6,9	8,9	15,[16],17	
ET8HRJ	Investigator® 24plex					
	14,16.3	[17],23,24	10,11,[11.3],[14]	16,17		11,13
3e		8,10,[13]	15,15		[11],13,16	15,19,[20]
	11,12	9,[10],13,[14]		[13],16,[17],19	13,15	
	30,[32],32.2	11,15,[16]	X,X,[Y]	11,13	20,[22],24	
		[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,17	
EYCLEW	Identifiler®					
		[17],23,24		[15],16,17		11,13
3e		8,10,[13]	15			
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,32.2		X,[Y]	11,13	20,[22],[23],24	
			6,[8],9	8,9	15,[16],17	



TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

EYYPAR	Identifiler® Plus					
		23,24		15,16,17		11,13
3e		8,10,13	13,15			
	10,11,12	9,10,13,14		16,19	13,14,15	
	30,32.2		X	11,13	20,22,23,24	
			6,8,9	8,9	15,16,17	
FCKD6B	PowerPlex® 6C					
	14,16.3,[17]	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
3e		8,10,[13]	[13],15,15		[11],13,16	15,[18.3],19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,X,[X,Y]	11,13	20,[22],[23],24	[8],10,12
	12,16	[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17	
FELPFG	Investigator® 24plex QS					
	14,16.3	[17],23,24	10,11,[11.3]	[15],16,17		11,13
3e		8,10,[13]	15		[11],13,16	15,[18.3],19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24	
		[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17	
FH4PXH	GlobalFiler™					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	
		16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	
G2TQ3K	PowerPlex® Fusion					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
GD8HTE	PowerPlex® Fusion					
	14,16.3,17	17,23,24	10,11,11.3,17	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32.2	11,15,16	X,Y	11,13	20,22,23,24	10,12
	12,16		6,8,9	8,9	15,16,17	
GH48B8	PowerPlex® Fusion 6C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

GK4KR6	PowerPlex® Fusion					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
	3e	8,10,[13]	[13],15,15		[11],13,16	15,19,[20]
	11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,X,[Y]	11,13	20,[22],[23],24	[8],10,12
	12,16		6,[8],9	8,9	15,[16],17	
GNTPPJ	GlobalFiler™					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	
	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17		
GPXC3M	Identifiler® Plus					
		23,24		15,16,17		11,13
	3e	8,10	13,15			
	10,11,12	9,13,14		13,16,19	13,14,15	
	30,32.2		X,Y	11,13	20,23,24	
		6,8,9	8,9	15,16,17		
GVNRPA	PowerPlex® Fusion 5					
	14,16.3	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,15,16	6,8,9	8,9	15,16,17		
GVT4EQ	PowerPlex® Fusion 5c					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16	6,8,9	8,9	15,16,17		
GWJ98X	PowerPlex® Fusion					
	14,16.3	17,23,24	10,11,11.3,14	16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,19
	11,12	9,10,13,14		13,16,17,19	13,15	
	30,32,32.2	11,15	X,Y	11,13	20,22,23,24	8,10,12
	12,16	6,8,9	8,9	15,16,17		
H2A47M	Identifiler® Plus					
		17,23,24		15,16,17		11,13
	3e	8,10,13	13,15			
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2		X,Y	11,13	20,22,23,24	
		6,8,9	8,9	15,16,17		

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

HGZ8LR	PowerPlex® Fusion 6C					
	14,16.3,[17]	[17],23,24	10,11,[11.3,14]	[15],16,17		11,13
	3e	8,10,[13]	[13],15		[11],13,16	15,[18.3],19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22,23],24	[8],10,12
12,16	[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17		
HHVKDQ	PowerPlex® Fusion					
	14,16.3	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,19,20
	11,12	9,10,13,14		13,16,17,19	13,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
12,16		6,8,9	8,9	15,16,17		
HRMU69	PowerPlex® Fusion 6C					
	14,16.3,[17]	[17],[22]*,23,24	10,11,[11.3]	[15],16,17	-	11,13
	3e	-	8,10	15,15	-	[11],13,16
	[10],11,12	9,[12]*,13,[14]	-	16,19	13,15	-
	30,32.2	11,15,[16]	X,X	11,13	20,24	[8],10,12
12,16	27.2,28.2	6,[8],9	8,9	15,[16],17		
J2NMPK	PowerPlex® 5C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10	13,15		13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15	X,Y	11,13	20,22,23,24	8,10,12
12,16		6,8,9	8,9	15,16,17		
J4ERJR	PowerPlex® Fusion					
	14,16.3	[17],23,24	10,11,[11.3,14]	[15],16,17		11,13
	3e	8,10	[13],15		[11],13,16	15,[18.3],19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22,23],24	[8],10,12
12,16	[16],27.2,28.2	6,[8],9	8,9	15,[16],17		
J4V9DK	Identifiler® Plus					
		17,23,24		15,16,17		11,13
	3e	8,10,13	13,15			
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2		X,Y	11,13	20,22,23,24	
		6,8,9	8,9	15,16,17		
J67XPA	PowerPlex® Fusion					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
	3e	8,10,[13]	[13],15,15		13,16	15,19,[20]
	11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15	X,X,[Y]	11,13	20,[22],24	[8],10,12
12,16		6,[8],9	8,9	15,[16],17		

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

Item 3e - STR Results

J8ULYP	Identifiler® ID Plus					
	-	23,24	-	16,17	-	11,13
3e	-	8,10	15	-	-	-
	11,12	9,13	-	16,19	13,15	-
	30,32.2	-	X,X	11,13	20,24	-
	-	-	6,9	8,9	15,17	
J8W6A8	Identifiler® Plus					
		17,23,24		15,16,17		11,13
3e		8,10,13	13,15			
	11,12	9,10,13,14		16,17,19	13,14,15	
	30,32,32.2		X,Y	11,13	20,22,23,24	
			6,8,9	8,9	15,16,17	
JBWFWU	GlobalFiler™					
	14,16.3	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	
		27.2,28.2,34.2	6,8,9	8,9	15,16,17	
JDKUL4	PowerPlex® Fusion 6C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	
JFLZZA	PowerPlex® FUSION					
	14,16.3,17	23,24	10,11	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,13,14		13,16,19	13,15	
	30,32.2	11,15	X	11,13	20,22,23,24	10,12
	12,16		6,8,9	8,9	15,16,17	
JN3D4F	GlobalFiler™					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	
		16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	
JU93KM	GlobalFiler™					
	14,16.3,[17]	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
3e		8,10,[13]	[13],15		[11],13,16	15,[18.3],19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24	
		[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,16,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

KE7344	GlobalFiler™					
	14,16.3	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,19,20
	11,12	9,13		13,16,17,19	13,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,23,24	
	27.2,28.2	6,8,9	8,9	15,16,17		
KH87VQ	Identifiler®, Investigator® 24plex QS					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17	N/A	11,13
	3e	N/A	[13],15	N/A	[11],13,16	15,19,[20]
	[10],11,[12]	9,[10],13,[14]	N/A	[13],16,[17],19	13,[14],15	N/A
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24	N/A
	N/A	27.2,28.2	6,[8],9	8,[9]	15,[16],17	
KKWCFM	Identifiler® Plus					
		17,23,24		15,16,17		11,13
	3e	8,10,13	13,15			
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2		X,Y	11,13	20,22,23,24	
		6,8,9	8,9	15,16,17		
KLVBVP	PowerPlex® Fusion 6C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	
LKQH82	PowerPlex® Fusion					
	14,16.3	(17),23,24	10,11,(11.3),(14)	(15),16,17		11,13
	3e	8,10,(13)	(13),15		(11),13,16	15,19,(20)
	(10),11,12	9,(10),13,(14)		(13),16,(17),19	13,(14),15	
	30,(32),32.2	11,15	X,(Y)	11,13	20,(22),(23),24	(8),10,12
	12,16		6,(8),9	8,9	15,(16),17	
LNXXN9	PowerPlex® Fusion 5c					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
	3e	8,10,[13]	[13],15,15		[11],13,16	15,19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15	X,X,[Y]	11,13	20,[22],[23],24	[8],10,12
	12,16		6,[8],9	8,9	15,[16],17	
LT72UL	Identifiler® Plus					
	-	23,24	-	16,17	-	11,13
	3e	-	15	-	-	-
	11,12	9,13	-	16,19	13,15	-
	30,32.2	-	X,X	11,13	20,24	-
	-	6,9	8,9	15,17		

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

LT8XZB	PowerPlex® Fusion 6C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,18.3,19,20
	11,12	9,10,13,14		13,16,17,19	13,15	
	30,32,32.2	11,15	X,Y	11,13	20,22,23,24	8,10,12
	12,16	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	
LUHVDT	PowerPlex® Fusion					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
LYDP8N	Identifiler® Plus					
	-	23,24	-	16,17	-	11,13
3e		8,10	15	-	-	-
	11,12	9,13	-	16,19	13,15	-
	30,32.2	-	X,X	11,13	20,24	-
	-	-	6,9	8,9	15,17	
M8Y7FN	PowerPlex® Fusion					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
ML62W6	PowerPlex® Fusion					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	10,12
	12,16		6,8,9	8,9	15,16,17	
MNQ3GJ	GlobalFiler™					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
3e		8,10,[13]	[13],15		13,16	15,[18.3],19,[20]
	[10],11,12	9,[10],13		[13],16,19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24	
		[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17	
MXAMUN	Identifiler®, Investigator® 24plex QS					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17	N/A	11,13
3e		8,10,13	13,15	N/A	11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14	N/A	13,16,17,19	13,14,15	N/A
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	N/A
	N/A	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

NJ7KT8	PowerPlex® Fusion 6C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	
NURKRP	GlobalFiler™					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
	3e	8,10,[13]	[13],15,15		[11],13,16	15,[18.3],19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,X,[X,Y]	11,13	20,[22],[23],24	
	[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17		
P96EEY	PowerPlex® Fusion 6C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	
PD2YK4	PowerPlex® Fusion					
	14,16.3,[17]	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
	3e	8,10,[13]	[13],15		[11],13,16	15,19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24	10,12
	12,16		6,[8],9	8,9	15,[16],17	
PPUKND	Identifiler® Plus					
		23,24		16,17		11,13
	3e	8,10	15,15			
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	
		6,9	8,9	15,17		
PQ83T6	GlobalFiler™					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
	3e	8,10,[13]	[13],15		11,13,16	15,[18.3],19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24	
	[16],27.2,28.2	6,8,9	8,9	15,[16],17		
Q23RVX	Identifiler®					
		17,23,24		15,16,17		11,13
	3e	8,10,13	13,15			
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2		X,Y	11,13	20,22,23,24	
		6,8,9	8,9	15,16,17		

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

Q498BG	PowerPlex® 21					
	14,16.3	23,24	-	16,17	-	11,13
3e	16,18	8,10	15	-	-	15,19
	11,12	9,13	-	16,19	13,15	-
	30,32.2	-	X	11,13	20,24	10,12
	12,16	-	6,9	8,9	15,17	
Q6MC9E	Identifiler® Plus					
		17,23,24		15,16,17		11,13
3e		8,10	13,15			
	10,11,12	9,10,13		13,16,17,19	13,14,15	
	30,32.2		X,Y	11,13	20,23,24	
			6,8,9	8,9	15,16,17	
Q934Z8	GlobalFiler™					
	[13],14,16.3,[Q]	23,24,[Q]	10,11,[11.3,14]	[15],16,17,[Q]		[10],11,[12],13,[Q]
3e		8,10,[Q]	[13,14],15,15,[Q]		[11,12],13,[15],16,[Q]	[14],15,[18],19,[20, Q]
	[10],11,12,[Q]	9,[10],13,[14]		16,[17,18],19,[Q]	13,[14],15,[Q]	
	[29],30,[31.2,32]32.2,[Q]	11,[14],15,[Q]	X,X,[Y]	[10],11,[12],13,[Q]	[19],20,[22],[23],24,[Q]	
		[16,26.2],27.2,28.2,[Q]	6,[8],9,[Q]	8,9,[Q]	15,[16],17,[Q]	
QFGX8W	PowerPlex® 21					
	14,16.3	[17],23,24		[15],16,17		11,13
3e	[11],[12],16,18	8,10,[13]	[13],15			15,19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2		X,[Y]	11,13	20,[22],[23],24	10,12
	12,16		6,[8],9	8,9	15,[16],17	
QTT723	GlobalFiler™					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
3e		8,10,[13]	[13],15		[11],13,16	15,[18.3],19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24	
		[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17	
QXKKKH	PowerPlex® Fusion 5C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
R2EJQZ	PowerPlex® Fusion					
	14,16.3,[17]	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
3e		8,10,[13]	[13],15		[11],13,16	15,19,[20]
	11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24	[8],10,12
	12,16		6,[8],9	8,9	15,[16],17	



TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

RBMFAX	PowerPlex® Fusion 5C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
TCC2KZ	GlobalFiler™					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	
		16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	
TCDUFM	PowerPlex® Fusion					
	14,16.3	23,24	10,11,14	16,17		11,13
3e		8,10	13,15		13,16	15,19
	11,12	9,10,13		13,16,19	13,14,15	
	30,32.2	11,15	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
TDTZXX	PowerPlex® FUSION 5C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
TE3ZZJ	PowerPlex® Fusion					
	14,16.3	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
TT32DK	GlobalFiler™					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e		8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	
		16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	
TYPUKD	Identifiler® Plus					
		23,24		15,16,17		11,13
3e		8,10	15			
	10,11,12	9,13		16,19	13,14,15	
	30,32.2		X,Y	11,13	20,23,24	
			6,8,9	8,9	15,16,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

TZ6T3G	PowerPlex® FUSION, GlobalFiler™						
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13	
	3e	8,10,13	13,15		11,13,16	15,18.3,19,20	
	10,11,12	9,10,13,14		13,16,17,19	13,14,15		
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12	
	12,16	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17		
U6Q97E	PowerPlex® Fusion						
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13	
	3e	8,10,13	13,15		11,13,16	15,19,20	
	10,11,12	9,10,13,14		13,16,17,19	13,14,15		
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12	
	12,16		6,8,9	8,9	15,16,17		
UFCE2X	Investigator® 24plex						
	14,16.3	[17],23,24	10,11,[11.3],14	[15],16,17	-	11,13	
	3e	-	8,10,[13]	[13],15	-	[11],13,16	15,[18.3],19,[20]
	[10],11,12	9,[10],13,[14]	-	[13],16,[17],19	13,15	-	
	30,32.2	11,15	X,[Y]	11,13	20,[23],24	-	
	-	[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17		
UFNB73	PowerPlex® Fusion 6C						
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13	
	3e	8,10,13	13,15		11,13,16	15,18.3,19,20	
	10,11,12	9,10,13,14		13,16,17,19	13,14,15		
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12	
	12,16	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17		
UGZ2DL	PowerPlex® Fusion						
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13	
	3e	8,10,13	13,15		11,13,16	15,19,20	
	10,11,12	9,10,13,14		13,16,17,19	13,14,15		
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12	
	12,16		6,8,9	8,9	15,16,17		
V3JBBC	Identifiler® Plus						
	-	23,24	-	16,17	-	11,13	
	3e	-	8,10	15	-	-	
	11,12	9,13	-	16,19	13,15	-	
	30,32.2	-	X,X	11,13	20,24	-	
	-	-	6,9	8,9	15,17		
V7W9HY	PowerPlex® Fusion						
	14,16.3	17,23,24	10,11,11.3,14	15,16,17		11,13	
	3e	8,10,13	13,15		11,13,16	15,19,20	
	11,12	9,10,13,14		13,16,17,19	13,14,15		
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12	
	12,16		6,8,9	8,9	15,16,17		

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

V8EYT6	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
3e		8,10	[13],15		13,16	15,19
	11,12	9,13		16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X	11,13	20,24	
		27.2,28.2	6,[8],9	8,9	15,[16],17	
V8TQFU	PowerPlex® Fusion 5C					
	14,16.3	17,23,24	10,11,11.3	15,16,17		11,13
3e		8,10,13	13,15		13,16	15,19,20
	11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,24	8,10,12
	12		6,8,9	8,9	15,16,17	
V9LE3W	PowerPlex® fusion					
	14,16.3,[17]	[17],23,24	10,11,[11.3,14]	[15],16,17		11,13
3e		8,10,[13]	[13],15		[11],13,16	15,19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15	X,[Y]	11,13	20,[22,23],24	[8],10,12
	12,16		6,[8],9	8,9	15,[16],17	
VBWCHY	PowerPlex® Fusion 5C					
	14,16.3,[17]	[17],23,24	10,11,[11.3,14]	[15],16,17		11,13
3e		8,10,[13]	[13],15,15		[11],13,16	15,19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22,23],24	[8],10,12
	12,16		6,[8],9	8,9	15,[16],17	
VEQF26	Investigator® 24plex QS					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
3e		8,10,13	15		[11],13,16	15,19,[20]
	11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24	
		[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17	
VGHA3F	GlobalFiler™					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
3e		8,10,[13]	[13],15,15		[11],13,16	15,19
	[10],11,12	9,13		[13],16,19	13,[14],15	
	30,32.2	11,15,[16]	X,X,[Y]	11,13	20,[22],[23],24	
		[16],27.2,28.2	6,[8],9	8,9	15,[16],17	
VJ8GMC	GlobalFiler™					
	14,16.3	[17],23,24	10,11,[11.3,14]	[15],16,17		11,13
3e		8,10,[13]	[13],15		[11],13,16	15,19,[20]
	[10],11,12	9,[10],13,[14]		[13],16,[17],19	13,[14],15	
	30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24	
		[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

VNHVPA	Identifiler® Plus	17,23,24		15,16,17		11,13
3e		8,10,13	13,15			
		10,11,12	9,10,13,14	13,16,17,19	13,14,15	
		30,32,32.2	X,Y	11,13	20,22,23,24	
			6,8,9	8,9	15,16,17	
VTUEDH	GlobalFiler™	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17	11,13
3e		8,10,[13]	[13],15		[11],13,16	15,19,[20]
		[10],11,12	9,13,[14]	[13],16,[17],19	13,[14],15	
		30,32.2	11,15,16	X,[Y]	11,13	20,[22],[23],24
			[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,16,17
VUQ3NZ	PowerPlex® Fusion 6C	14,16.3	17,23,24	10,11,11.3,14	15,16,17	11,13
3e		8,10,13	13,15		11,13,16	15,18.3,19,20
		10,11,12	9,10,13,14	13,16,17,19	13,14,15	
		30,32,32.2	11,15	X,Y	11,13	20,22,23,24
		12,16	16,27.2,28.2	6,8,9	8,9	15,16,17
VWVMF8	PowerPlex® Fusion 5C	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17	11,13
3e		8,10,13	13,15		11,13,16	15,19,20
		10,11,12	9,10,13,14	13,16,17,19	13,14,15	
		30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24
		12,16		6,8,9	8,9	15,16,17
VXBXEZ	GlobalFiler™	14,16.3	17,23,24	10,11,[11.3],[14]	[15],16,17	11,13
3e		8,10,[13]	[13],15		[11],13,16	15,[18.3],19,[20]
		[10],11,12	9,[10],13,[14]	16,[17],19	13,[14],15	
		30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24
			[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17
W7Z6CV	GlobalFiler™	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17	11,13
3e		8,10,[13]	[13],15		[11],13,16	15,[18.3],19,[20]
		10,11,12	9,[10],13,[14]	[13],16,[17],19	13,[14],15	
		30,[32],32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24
			[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,16,17
W8B2UT	PowerPlex® Fusion 5C	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17	11,13
3e		8,10,13	13,15		11,13,16	15,18.3,19,20
		10,11,12	9,10,13,14	13,16,17,19	13,14,15	
		30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24
		12,16		6,8,9	8,9	15,16,17

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

WDD2BB	GlobalFiler™					
	14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17		11,13
	3e	8,10,[13]	[13],15		[11],13,16	15,19,[20]
	[10],11,12	9,[10],13,[14]		16,[17],19	13,[14],15	
	30,32.2	11,15,[16]	X,[Y]	11,13	20,[22],[23],24	
	[16],27.2,28.2	6,[8],9	8,9	15,[16],17		
WPUTYK	PowerPlex® Fusion					
	14,16.3	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15	X,Y	11,13	20,22,23,24	8,10,12
	12,16	6,8,9	8,9	15,16,17		
WQJ4RX	PowerPlex® Fusion 6C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	
WVWWPH	PowerPlex® Fusion					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16	6,8,9	8,9	15,16,17		
WYE2J8	PowerPlex® Fusion 5C					
	14,16.3,17	17,23,24	10,11,11.3	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15	X,Y	11,13	20,22,23,24	8,10,12
	12,16	6,8,9	8,9	15,16,17		
X3B89W	PowerPlex® Fusion 6C					
	14,16.3	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	
XATHMX	PowerPlex® Fusion 6C					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

XEMBY2	GlobalFiler™					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,18.3,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	
	16,27.2,28.2,34.2	6,8,9	8,9	15,16,17		
XL3CXB	GlobalFiler™					
	14,16.3	23,24	10,11,[11.3,14]	[15],16,17		11,13
	3e	8,10	[13],15		[11],13,16	15,19
	[10],11,12	9,[10],13		16,[17],19	13,[14],15	
	30,32.2	11,15,[16]	X,X,[Y]	11,13	20,[22,23],24	
	[16],27.2,28.2	6,9	8,9	15,[16],17		
XMJBC9	Identifiler® Plus					
		17,23,24		15,16,17		11,13
	3e	8,10	15			
	10,11,12	9,13,14		13,16,19	13,14,15	
	29,30,32,32.2		X,Y	11,13	20,22,23,24	
		6,8,9	8,9	15,16,17		
XNPY8P	PowerPlex® 21					
	14,16.3	23,24		16,17		11,13
	3e	16,18	8,10	15,15		15,19
	11,12	9,13		16,19	13,15	
	30,32.2		X,X	11,13	20,24	10,12
	12,16	6,9	8,9	15,17		
XREW8H	PowerPlex® Fusion					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
	3e	8,10,13	13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16	6,8,9	8,9	15,16,17		
XW4G9C	GlobalFiler™					
	14,16.3	23,24	10,11	16,17		11,13
	3e	8,10	15,15		13,16	15,19
	11,12	9,13		16,19	13,15	
	30,32.2	11,15	X,X	11,13	20,24	
	27.2,28.2	6,9	8,9	15,17		
Y3NWEV	PowerPlex® Fusion					
	14,16.3	[17],23,24	10,11	[15],16,17		11,13
	3e	8,10	[13],15,15		13,16	15,19,[20]
	11,12	9,[10],13,[14]		16,[17],19	13,[14],15	
	30,32.2	11,15,[16]	X,X	11,13	20,[22],[23],24	[8],10,12
	12,16	6,[8],9	8,9	15,[16],17		

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

Y4KCN7	Identifiler®	17,23,24		15,16,17		11,13
3e		8,10,13	13,15			
		10,11,12	9,10,13,14	13,16,17,19	13,14,15	
		30,32,32.2	X,Y	11,13	20,22,23,24	
			6,8,9	8,9	15,16,17	
Y7TP9T	PowerPlex® Fusion					
		14,16.3	[17],23,24	10,11,[11.3],[14]	[15],16,17	11,13
3e			8,10,[13]	[13],15		[11],13,16
		11,12	9,[10],13,[14]	[13],16,[17],19	13,[14],15	15,19,[20]
		30,[32],32.2	11,15	X,[Y]	11,13	20,[22],[23],24
		12,16		6,[8],9	8,9	15,[16],17
Y9EMKQ	Identifiler® Plus					
		[17],23,24		15,16,17		11,13
3e		8,10,[13]	[13],15			
		[10],11,12	9,[10],13,[14]	[13],16,[17],19	13,[14],15	
		30,[32],32.2	X,[Y]	11,13	20,[22],[23],24	
			6,[8],9	8,9	15,16,17	
YBLQA9	Identifiler® Plus					
		17,23,24		15,16,17		11,13
3e		8,10,13	13,15			
		10,11,12	9,10,13,14	13,16,17,19	13,14,15	
		30,32,32.2	X,Y	11,13	20,22,23,24	
			6,8,9	8,9	15,16,17	
YBZDLV	PowerPlex® Fusion					
		14,16.3,17	17,23,24	10,11,11.3,14	15,16,17	11,13
3e			8,10,13	13,15		11,13,16
		10,11,12	9,10,13,14	13,16,17,19	13,14,15	15,19,20
		30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24
		12,16		6,8,9	8,9	15,16,17
YP2PJF	GlobalFiler™					
		14,16.3,17	17,23,24	10,11,11.3,14	15,16,17	11,13
3e			8,10,13	13,15		11,13,16
		10,11,12	9,10,13,14	13,16,17,19	13,14,15	15,18.3,19,20
		30,32,32.2	11,15,16	X,Y	11,12,13	20,22,23,24
			16,27.2,28.2,34.2	6,8,9	8,9	15,16,17
Z6T7JX	GlobalFiler™					
		14,16.3,17	17,23,24	10,11,11.3,14	15,16,17	11,13
3e			8,10,13	13,15		11,13,16
		10,11,12	9,10,13,14	13,16,17,19	13,14,15	15,18.3,19,20
		30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24
			16,27.2,28.2,34.2	6,8,9	8,9	15,16,17

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3e - STR Results

Z7K6UP	Investigator® 24plex					
	14,16.3	[17],23,24	10,11,[11.3,14]	16,17		11,13
3e	8,10		[13],15		[11],13,16	15,19,[20]
	11,12	9,[10],13,[14]		[13],16,[17],19	13,15	
	30,[32],32.2	11,15	X,[Y]	11,13	20,[22],24	
		[16],27.2,28.2,[34.2]	6,[8],9	8,9	15,[16],17	
ZMDNXR	PowerPlex® 21					
	14,16.3,17	17,23,24		15,16,17		11,13
3e	11,12,16,18	8,10,13	13,15			15,19,20*
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2		X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
ZMWJGE	PowerPlex® Fusion					
	14,16.3,17	17,23,24	10,11,11.3,14	15,16,17		11,13
3e	8,10,13		13,15		11,13,16	15,19,20
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2	11,15,16	X,Y	11,13	20,22,23,24	8,10,12
	12,16		6,8,9	8,9	15,16,17	
ZTV668	Identifiler® Plus, MiniFiler					
		17,23,24		15,16,17		11,13
3e	8,10,13		13,15			
	10,11,12	9,10,13,14		13,16,17,19	13,14,15	
	30,32,32.2		X,Y	11,13	20,22,23,24	
			6,8,[9]	8,[9]	15,16,17	



TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

22NZHW	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	[15],18.3,20
	10,11	10,14		13,17	13,[14]	
	32,[32.2]	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8	16		
28V8JU	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,13,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	6,8	8	16		
2EDUUQ	PowerPlex® fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	6,8	8,8	16,16		
2M4F2A	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8,8	16,16		
2UPB3D	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	6,8	8	16		
2Y22LM	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	6,8	8,8	16,16		
33CTUQ	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	6,8	8	16		

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

39NE3X	GlobalFiler™					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
		16,34.2	6,8	8	16	
3CL2UZ	GlobalFiler™ Express					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
		16,34.2	6,8	8,8	16,16	
3GD3ZL	PowerPlex® Fusion 6C					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12	16,34.2	6,8	8	16	8,10
3RXPTM	Identifiler® Plus					
			17,23		15,17	11,13
	3sp		10,13	13,15		
		10,11	10,14		13,17	13,14
		32,32.2		X,Y	11,13	22,23
			6,8	8,8	16,16	
3VD6F9	GlobalFiler™					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
		16,34.2	6,8	8	16	
3XZTPM	Identifiler®					
			17,23		15,17	11,13
	3sp		10,13	13,15		
		10,11	10,14		13,17	13,14
		32,32.2		X,Y	11,13	22,23
			6,8	8,8	16,16	
3Z77E2	Identifiler® Plus					
			17,23		15,17	11,13
	3sp		10,13	13,15		
		10,11	10,14		13,17	13,14
		32,32.2		X,Y	11,13	22,23
			6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

47AEGM	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp	10,13					
	10,11	10,[13],14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
49JEHN	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp	10,13					
	10,11	10,[13],14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
4AD436	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp	10,13					
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
4ATRX6	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp	10,13					
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
4JGKA2	Identifiler® Plus					
		17,23		15,16,17		11,13
3sp	10,13					
	10,11,12	9,10,13,14	13,14,15	13,16,17	13,14,15	
	32,32.2		X,Y	11,13	22,23	
			6,8,9	8,9	16,17	
4JZ77X	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp	10,13					
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	16,34.2	6,8	8,8	16,16	
4W6D7N	Identifiler® ID+					
		17,23		15,17		11,13
3sp	10,13					
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

4WP2KC	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12		6,8	8	16	
62WXJJ	PowerPlex® 21					
		16.3,17	17,23		15,17	11,13
	3sp		10,13	13,15		18.3,20
		10,11	10,14		13,17	13,14
		32,32.2		X,Y	11,13	22,23
	12,12		6,8	8,8	16,16	
6FWZVK	PowerPlex® 21					
		16.3,17	17,23		15,17	11,13
	3sp		10,13	13,15		18.3,20
		10,11	10,14		13,17	13,14
		32,32.2		X,Y	11,13	22,23
	12,12		6,8	8,8	16,16	
6T3YYP	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12,12		6,8	8,8	16,16	
6TGEYJ	Identifiler® Plus					
			17,23		15,17	11,13
	3sp		10,13	13,15		
		10,11	10,14		13,17	13,14
		32,32.2		X,Y	11,13	22,23
			6,8	8,8	16,16	
6VPM94	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12		6,8	8	16	
7BXXBG	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12,12		6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

7PYEGH	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
3sp	11,12	10,13	13,15			18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12		6,8	8	16	
7Y768Z	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
7YMJB4	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
82T7N9	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
87JHLP	Investigator® 24plex					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
89RLHM	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
8AJP63	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

8CMMBN	PowerPlex® FUSION					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
8J6VWY	Identifiler® Plus					
		17,23		15,17		11,13
3sp		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
8K27VN	PowerPlex® Fusion 5C					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
8ZA8KH	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
3sp	11,12	10,13	13,15			18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
97EKLE	PowerPlex® ESI-Fast					
	16.3,17	17,23	11.3,14	15,17		
3sp			13,15		11,13	18.3,20
		10,14		13,17	13,14	
	32,32.2	11,16	X,Y		22,23	
			6,8		16,16	
9FKK28	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
9HARL4	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

9JL9YH	PowerPlex® Fusion 5C					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
9NXCQ6	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8	16		
9RFEU4	Identifiler®					
	N/A	17,23	N/A	15,17	N/A	11,13
	3sp	10,13	13,15	N/A	N/A	N/A
	10,11	10,[13],14	N/A	13,17	13,14	N/A
	[30],32,32.2	N/A	X,Y	11,13	22,23	N/A
	N/A	6,8	8	16		
9U2H22	Sure ID					
	17,17	17,23		15,17		11,18
	3sp	10,13	13,15			18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
A3DUWD	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
A4L7FZ	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,[13],14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8,8	16,16		
AQJFY3	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8,8	16,16		

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

AQVERQ	Investigator® 24plex					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
ATKLCM	Investigator® 24plex					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
AVCFDX	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
AVCKQL	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
B2UDEQ	Investigator® 24plex					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
B382FG	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
B6X69N	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	16,34.2	6,8	8,8	16,16	



TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

B8G6HC	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
	3sp	11,12	10,13	13,15		18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
CA4WDF	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
CDN9RC	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
CN6WLB	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
CPXT6C	Identifiler®					
		17,23		15,17		11,13
	3sp	10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
		6,8	8,8	16,16		
CQVW7Z	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
CTW2FE	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

CVM2Z6	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
DA2VME	Identifiler®					
		17,23		15,17		11,13
	3sp	10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
		6,8	8	16		
DMRBZF	PowerPlex® 21					
	NR,NR	NR,NR		NR,NR		NR,NR
	3sp	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,NR
	NR,NR		NR,NR	NR,NR		
DQP2WT	Identifiler® Plus					
		17,23		15,17		11,13
	3sp	10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
		6,8	8	16		
E2H3TU	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8,8	16,16		
E4NENA	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
	3sp	11,12	10,13	13,15		18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
E8TXVH	Investigator® 24plex					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8,8	16,16		

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

ECZNXN	PowerPlex® Fusion System					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
EMKVWD	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
EQ3VEE	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
EQJB3F	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
ERFM8V	GlobalFiler™					
	16.3,17	17,23	[10],11.3,14	15,[16],17		11,13
3sp		[8],10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14,[15]	
	32,32.2	11,16	X,Y	11,13	[20],22,23,[24]	
		16,34.2	6,8	8	16	
ET8HRJ	Investigator® 24plex					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
EYCLEW	Identifiler®					
		17,23		15,17		11,13
3sp		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

EYYPAR	Identifiler® Plus	17,23		15,17		11,13
3sp		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
FCKD6B	PowerPlex® 6C	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	16,34.2	6,8	8,8	16,16	
FELPFG	Investigator® 24plex QS	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
FH4PXH	GlobalFiler™	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
G2TQ3K	PowerPlex® Fusion	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,15,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
GD8HTE	PowerPlex® Fusion	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
GH48B8	PowerPlex® Fusion 6C	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

GK4KR6	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12,12		6,8	8,8	16,16	
GNTPPJ	GlobalFiler™					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
		16,34.2	6,8	8	16	
GPXC3M	Identifiler® Plus					
			17,23		15,17	11,13
	3sp		10,13	13,15		
		10,11	10,14		13,17	13,14
		32,32.2		X,Y	11,13	22,23
			6,8	8	16	
GVNRPA	PowerPlex® Fusion 5					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12,12		6,8	8,8	16,16	
GVT4EQ	PowerPlex® Fusion 5c					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12		6,8	8	16	
GWJ98X	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12		6,8	8	16	
H2A47M	Identifiler® Plus					
			17,23		15,17	11,13
	3sp		10,13	13,15		
		10,11	10,14		13,17	13,14
		32,32.2		X,Y	11,13	22,23
			6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

HGZ8LR	PowerPlex® Fusion 6C					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12,12	16,34.2	6,8	8,8	16,16	
HHVKDQ	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12		6,8	8	16	
HRMU69	PowerPlex® Fusion 6C					
		16.3,17	17,23	11.3,14	15,17	-
	3sp		10,13	13,15	-	11,13
		10,11	10,14	-	13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12,12	16,34.2	6,8	8,8	16,16	
J2NMPK	PowerPlex® 5C					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17,19	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12,12		6,8	8,8	16,16	
J4ERJR	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12	16,34.2	6,8	8	16	
J4V9DK	Identifiler® Plus					
			17,23		15,17	11,13
	3sp		10,13	13,15		
		10,11	10,14		13,17	13,14
		32,32.2		X,Y	11,13	22,23
			6,8	8	16	
J67XPA	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,[16],17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		[30],32,32.2	11,16	X,Y	11,13	22,23
	12,12		6,8	8,8,[9]	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

J8ULYP	Identifiler® ID Plus					
	-	17,23	-	15,17	-	11,13
3sp	-	10,13	13,15	-	-	-
	10,11	10,14	-	13,17	13,14	-
	32,32.2	-	X,Y	11,13	22,23	-
	-	-	6,8	8	16	
J8W6A8	Identifiler® Plus					
	-	17,23	-	15,17	-	11,13
3sp	-	10,13	13,15	-	-	-
	10,11	10,14	-	13,17	13,14	-
	32,32.2	-	X,Y	11,13	22,23	-
	-	-	6,8	8,8	16,16	
JBWFWU	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17	-	11,13
3sp	-	10,13	13,15	-	11,13	18.3,20
	10,11	10,14	-	13,17	13,14	-
	32,32.2	11,16	X,Y	11,13	22,23	-
	-	16,34.2	6,8	8	16	
JDKUL4	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17	-	11,13
3sp	-	10,13	13,15	-	11,13	18.3,20
	10,11	10,14	-	13,17	13,14	-
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
JFLZZA	PowerPlex® FUSION					
	16.3,17	17,23	11.3,14	15,17	-	11,13
3sp	-	10,13	13,15	-	11,13	18.3,20
	10,11	10,14	-	13,17	13,14	-
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	-	6,8	8,8	16,16	
JN3D4F	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17	-	11,13
3sp	-	10,13	13,15	-	11,13	18.3,20
	10,11	10,14	-	13,17	13,14	-
	32,32.2	11,16	X,Y	11,13	22,23	-
	-	16,34.2	6,8	8	16	
JU93KM	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17	-	11,13
3sp	-	10,13	13,15	-	11,13	18.3,20
	10,11	10,14	-	13,17	13,14	-
	32,32.2	11,16	X,Y	11,13	22,23	-
	-	16,34.2	6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

KE7344	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8	16		
KH87VQ	Identifiler®, Investigator® 24plex QS					
	16.3,17	17,23	11.3,14	15,17	N/A	11,13
	3sp	10,13	13,15	N/A	11,13	18.3,20
	10,11	10,14	N/A	13,17	13,14	N/A
	32,32.2	11,16	X,Y	11,13	22,23	N/A
	16,34.2	6,8	8,8	16,16		
KKWCFM	Identifiler® Plus					
		17,23		15,17		11,13
	3sp	10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
		6,8	8	16		
KLVBVP	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
LKQH82	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	(8),10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
LNXX9	PowerPlex® Fusion 5c					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
LT72UL	Identifiler® Plus					
	-	17,23	-	15,17	-	11,13
	3sp	10,13	13,15	-	-	-
	10,11	10,14	-	13,17	13,14	-
	32,32.2	-	X,Y	11,13	22,23	-
	-	6,8	8	16		



TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

LT8XZB	PowerPlex® Fusion 6C					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12	16,34.2	6,8	8	16	8,10
LUHVDT	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12		6,8	8	16	8,10
LYDP8N	Identifiler® Plus					
		-	17,23	-	15,17	-
	3sp		10,13	13,15	-	-
		10,11	10,14	-	13,17	13,14
		32,32.2	-	X,Y	11,13	22,23
	-	-	6,8	8	16	-
M8Y7FN	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12		6,8	8	16	8,10
ML62W6	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12		6,8	8	16	8,10
MNQ3GJ	GlobalFiler™					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
		16,34.2	6,8	8	16	8,10
MXAMUN	Identifiler®, Investigator® 24plex QS					
		16.3,17	17,23	[10],11.3,14	15,[16],17	N/A
	3sp		[8],10,13	13,15	N/A	11,13
		10,11,[12]	[9],10,[13],14	N/A	13,[16],17,[19]	13,14,[15]
		[30],32,32.2	11,16	X,Y	11,13	[20],22,23,[24]
	N/A	16,[28.2],34.2	6,8,[9]	8,[9]	16,[17]	N/A

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

NJ7KT8	PowerPlex® Fusion 6C					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12	16,34.2	6,8	8	16	8,10
NURKRP	GlobalFiler™					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
		16,34.2	6,8	8,8	16,16	
P96EEY	PowerPlex® Fusion 6C					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12	16,34.2	6,8	8	16	8,10
PD2YK4	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12,12		6,8	8,8	16,16	8,10
PPUKND	Identifiler® Plus					
			17,23		15,17	11,13
	3sp		10,13	13,15		
		10,11	10,14		13,17	13,14
		32,32.2		X,Y	11,13	22,23
			6,8	8,8	16,16	
PQ83T6	GlobalFiler™					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
		16,34.2	6,8	8	16	
Q23RVX	Identifiler®					
			17,23		15,17	11,13
	3sp		10,13	13,15		
		10,11	10,14		13,17	13,14
		32,32.2		X,Y	11,13	22,23
			6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

Q498BG	PowerPlex® 21					
	16.3,17	17,23	-	15,17	-	11,13
3sp	11,12	10,13	13,15	-	-	18.3,20
	10,11	10,14	-	13,17	13,14	-
	32,32.2	-	X,Y	11,13	22,23	8,10
	12	-	6,8	8	16	
Q6MC9E	Identifiler® Plus					
		17,23		15,17		11,13
3sp		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
Q934Z8	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
QFGX8W	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
3sp	11,12	10,13	13,15			18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
QTT723	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13,[16]	[15],18.3,20
	10,11,[12]	10,14		13,17	13,14,[15]	
	32,32.2	11,16	X,Y	11,13	[20],22,23	
		16,34.2	6,8	8	16	
QXKKKH	PowerPlex® Fusion 5C					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
R2EJQZ	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

RBMFAX	PowerPlex® Fusion 5C					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12		6,8	8	16	8,10
TCC2KZ	GlobalFiler™					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
		16,34.2	6,8	8	16	
TCDUFM	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12		6,8	8	16	8,10
TDTZXX	PowerPlex® FUSION 5C					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12,12		6,8	8,8	16,16	8,10
TE3ZZJ	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12		6,8	8	16	8,10
TT32DK	GlobalFiler™					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,13,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
		16,34.2	6,8	8	16	
TYPUKD	Identifiler® Plus					
			17,23		15,17	11,13
	3sp		10,13	13,15		
		10,11	9,10,14		13,17	13,14
		32,32.2		X,Y	11,13	22,23
			6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

TZ6T3G	PowerPlex® FUSION, GlobalFiler™					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12	16,34.2	6,8	8	16	8,10
U6Q97E	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12		6,8	8	16	8,10
UFCE2X	Investigator® 24plex					
		16.3,17	17,23	[10,11],11.3,14	15,17	-
	3sp		[8],10,13	13,15	-	11,13
		10,11	10,14	-	13,17	13,14
		[30],32,32.2	11,16	X,Y	11,13	[20],22,23
	-	16,[27.2],[28.2],34.2	6,8	8	16,[17]	[15],18.3,20
UFNB73	PowerPlex® Fusion 6C					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12	16,34.2	6,8	8	16	8,10
UGZ2DL	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12		6,8	8	16	8,10
V3JBBC	Identifiler® Plus					
		-	17,23	-	15,17	-
	3sp		10,13	13,15	-	-
		10,11	10,14	-	13,17	13,14
		32,32.2	-	X,Y	11,13	22,23
	-	-	6,8	8	16	-
V7W9HY	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	3sp		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12,12		6,8	8,8	16,16	8,10

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

V8EYT6	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8	16		
V8TQFU	PowerPlex® Fusion 5C					
	14,16.3,17	17,23,24	11.3,14	15,17		11,13
	3sp	8,10,13	13,15		11,13	18.3,20
	10,11	10,13,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	20,22,23	8,10
	12,12	6,8	8,8	16,17		
V9LE3W	PowerPlex® fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	6,8	8,8	16,16		
VBWCHY	PowerPlex® Fusion 5C					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	6,8	8,8	16,16		
VEQF26	Investigator® 24plex QS					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,[13]	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8,8	16,16		
VGHA3F	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8,8	16,16		
VJ8GMC	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8	16		

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

VNHVPA	Identifiler® Plus	17,23		15,17		11,13
3sp		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	
VTUEDH	GlobalFiler™	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
VUQ3NZ	PowerPlex® Fusion 6C	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
VWVMF8	PowerPlex® Fusion 5C	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,13,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
VXBXEZ	GlobalFiler™	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
W7Z6CV	GlobalFiler™	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
W8B2UT	PowerPlex® Fusion 5C	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

WDD2BB	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8	16		
WPUTYK	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	6,8	8	16		
WQJ4RX	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
WVWWPH	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	6,8	8	16		
WYE2J8	PowerPlex® Fusion 5C					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,13,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	6,8	8,8	16,16		
X3B89W	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
XATHMX	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	



TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

XEMBY2	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	[8],10,13	13,15		11,13	18.3,20
	10,11	10,[13],14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	[20],22,23	
	16,34.2	6,8	8	16,16		
XL3CXB	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8,8	16,16		
XMJBC9	Identifiler® Plus					
		17,23		15,17		11,13
	3sp	10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
		6,8	8	16		
XNPY8P	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
	3sp	11,12	10,13	13,15		18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12	6,8	8,8	16,16		
XREW8H	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	6,8	8	16		
XW4G9C	GlobalFiler™					
	16.3,17	17,13	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8,8	16,16		
Y3NWEV	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	3sp	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	6,8	8,8	16,16		

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

Y4KCN7	Identifiler®					
		17,23		15,17		11,13
3sp		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	
Y7TP9T	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
Y9EMKQ	Identifiler® Plus					
		17,23		15,17		11,13
3sp		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	
YBLQA9	Identifiler® Plus					
		17,23		15,17		11,13
3sp		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
YBZDLV	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
YP2PJF	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
Z6T7JX	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,[16],17		11,13
3sp		10,13	13,15		11,13	[15],18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 3sp - STR Results

Z7K6UP	Investigator® 24plex					
	16.3,17	17,23	[10],11.3,14	15,17		11,13
3sp		10,13	13,15		11,13,[16]	18.3,20
	10,11	10,14		13,17,[19]	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
ZMDNXR	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
3sp		10,13	13,15			18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
ZMWJGE	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
3sp		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
ZTV668	Identifiler® Plus, MiniFiler					
		17,23		15,17		11,13
3sp		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

22NZHW	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
28V8JU	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
2EDUUQ	PowerPlex® fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
2M4F2A	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
2UPB3D	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
2Y22LM	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
33CTUQ	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

39NE3X	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
3CL2UZ	GlobalFiler™ Express					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
3GD3ZL	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
3RXPTM	Identifiler® Plus					
		17,23		15,17		11,13
4		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	
3VD6F9	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
3XZTPM	Identifiler®					
		17,23		15,17		11,13
4		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	
3Z77E2	Identifiler® Plus					
		17,23		15,17		11,13
4		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

47AEGM	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
49JEHN	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
4AD436	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
4ATRX6	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
4JGKA2	Identifiler® Plus					
		17,23		15,17		11,13
4		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
4JZ77X	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	16,34.2	6,8	8,8	16,16	
4W6D7N	Identifiler® ID+					
		17,23		15,17		11,13
4		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

4WP2KC	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
62WXJJ	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
4		10,13	13,15			18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
6FWZVK	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
4		10,13	13,15			18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
6T3YYP	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
6TGEYJ	Identifiler® Plus					
		17,23		15,17		11,13
4		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	
7BXXBG	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
7PYEGH	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
4		10,13	13,15			18.3,20
	10,11	10,14		13,17		
	32,32.2		X,Y	11,13	22,13	8,10
	12		6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

7Y768Z	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
7YMJB4	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
82T7N9	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
87JHLP	Investigator® 24plex					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
89RLHM	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
8AJP63	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
8CMMBN	PowerPlex® FUSION					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	



TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

8J6VWY	Identifiler® Plus	17,23		15,17		11,13
4		10,13	13,15			
		10,11	10,14	13,17	13,14	
		32,32.2	X,Y	11,13	22,23	
			6,8	8	16	
8K27VN	PowerPlex® Fusion 5C	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
		10,11	10,14	13,17	13,14	
		32,32.2	11,16	X,Y	11,13	22,23
		12	6,8	8	16	8,10
8ZA8KH	PowerPlex® 21	17,23		15,17		11,13
4		10,13	13,15			18.3,20
		10,11	10,14	13,17	13,14	
		32,32.2	X,Y	11,13	22,23	8,10
		12,12	6,8	8,8	16,16	
97EKLE	PowerPlex® ESI-Fast	17,23	11.3,14	15,17		
4			13,15		11,13	18.3,20
		10,14		13,17	13,14	
		32,32.2	11,16	X,Y	22,23	
			6,8		16,16	
9FKK28	PowerPlex® Fusion	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
		10,11	10,14	13,17	13,14	
		32,32.2	11,16	X,Y	11,13	22,23
		12	6,8	8	16	8,10
9HARL4	PowerPlex® Fusion	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
		10,11	10,14	13,17	13,14	
		32,32.2	11,16	X,Y	11,13	22,23
		12	6,8	8	16	8,10
9JL9YH	PowerPlex® Fusion 5C	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
		10,11	10,14	13,17	13,14	
		32,32.2	11,16	X,Y	11,13	22,23
		12,12	6,8	8,8	16,16	8,10

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

9NXCQ6	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	4	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8	16		
9RFEU4	Identifiler®					
	N/A	17,23	N/A	15,17	N/A	11,13
	4	10,13	13,15	N/A	N/A	N/A
	10,11	10,14	N/A	13,17	13,14	N/A
	32,32.2	N/A	X,Y	11,13	22,23	N/A
	N/A	6,8	8,8	16,16		
9U2H22	Sure ID					
	17,17	17,23		15,17		11,18
	4	11,12	10,13	13,15		18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12	6,8	8,8	16,16		
A3DUWD	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
	4	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
A4L7FZ	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	4	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8,8	16,16		
AQJFY3	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	4	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8,8	16,16		
AQVERQ	Investigator® 24plex					
	16.3,17	17,23	11.3,14	15,17		11,13
	4	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8,8	16,16		

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

ATKLCM	Investigator® 24plex					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
AVCFDX	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
AVCKQL	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
B2UDEQ	Investigator® 24plex					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
B382FG	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
B6X69N	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	16,34.2	6,8	8,8	16,16	
B8G6HC	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
4	11,12	10,13	13,15			18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

CA4WDF	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
CDN9RC	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
CN6WLB	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
CPXT6C	Identifiler®					
		17,23		15,17		11,13
4		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	
CQVW7Z	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
CTW2FE	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
CVM2Z6	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

DA2VME	Identifiler®	17,23		15,17		11,13
4		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
DMRBZF	PowerPlex® 21	17,23		15,17		11,13
4		10,13	13,15			18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
DQP2WT	Identifiler® Plus	17,23		15,17		11,13
4		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
E2H3TU	GlobalFiler™	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
E4NENA		17,23		15,17		11,13
4		10,13	13,15			18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
E8TXVH	Investigator® 24plex	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
ECZNXN	PowerPlex® Fusion System	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

EDJBUK	PowerPlex® Fusion 5C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
EMKVWD	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
EQ3VEE	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
EQJB3F	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
ERFM8V	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
ET8HRJ	Investigator® 24plex					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
EYCLEW	Identifiler®					
		17,23		15,17		11,13
4		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

EYYPAR	Identifiler® Plus					
		17,23		15,17		11,13
4		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
FCKD6B	PowerPlex® 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	16,34.2	6,8	8,8	16,16	
FELPFG	Investigator® 24plex QS					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
FH4PXH	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
G2TQ3K	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
GD8HTE	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
GH48B8	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

GK4KR6	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	4	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
GNTPPJ	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	4	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8	16		
GPXC3M	Identifiler® Plus					
		17,23		15,17		11,13
	4	10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
		6,8	8	16		
GVNRPA	PowerPlex® Fusion 5					
	16.3,17	17,23	11.3,14	15,17		11,13
	4	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
GVT4EQ	PowerPlex® Fusion 5c					
	16.3,17	17,23	11.3,14	15,17		11,13
	4	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
GWJ98X	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	4	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
H2A47M	Identifiler® Plus					
		17,23		15,17		11,13
	4	10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
		6,8	8	16		



TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

HGZ8LR	PowerPlex® Fusion 6C					
		16.3,17	17,23	11.3,14	15,17	11,13
	4		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12,12	16,34.2	6,8	8,8	16,16	
HHVKDQ	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	4		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12		6,8	8	16	
HRMU69	PowerPlex® Fusion 6C					
		16.3,17	17,23	11.3,14	15,17	11,13
	4		10,13	13,15	-	11,13
		10,11	10,14	-	13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12,12	16,34.2	6,8	8,8	16,16	
J2NMPK	PowerPlex® 5C					
		16.3,17	17,23	11.3,14	15,17	11,13
	4		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12,12		6,8	8,8	16,16	
J4ERJR	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	4		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12	16,34.2	6,8	8	16	
J4V9DK	Identifiler® Plus					
			17,23		15,17	11,13
	4		10,13	13,15		
		10,11	10,14		13,17	13,14
		32,32.2		X,Y	11,13	22,23
			6,8	8	16	
J67XPA	PowerPlex® Fusion					
		16.3,17	17,23	11.3,14	15,17	11,13
	4		10,13	13,15		11,13
		10,11	10,14		13,17	13,14
		32,32.2	11,16	X,Y	11,13	22,23
	12,12		6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

J8ULYP	Identifiler® ID Plus					
	-	17,23	-	15,17	-	11,13
4	-	10,13	13,15	-	-	-
	10,11	10,14	-	13,17	13,14	-
	32,32.2	-	X,Y	11,13	22,23	-
	-	-	6,8	8	16	
J8W6A8	Identifiler® Plus					
	-	17,23	-	15,17	-	11,13
4	-	10,13	13,15	-	-	-
	10,11	10,14	-	13,17	13,14	-
	32,32.2	-	X,Y	11,13	22,23	-
	-	-	6,8	8,8	16,16	
JBWFWU	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17	-	11,13
4	-	10,13	13,15	-	11,13	18.3,20
	10,11	10,14	-	13,17	13,14	-
	32,32.2	11,16	X,Y	11,13	22,23	-
	-	16,34.2	6,8	8	16	
JDKUL4	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17	-	11,13
4	-	10,13	13,15	-	11,13	18.3,20
	10,11	10,14	-	13,17	13,14	-
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
JFLZZA	PowerPlex® FUSION					
	16.3,17	17,23	11.3,14	15,17	-	11,13
4	-	10,13	13,15	-	11,13	18.3,20
	10,11	10,14	-	13,17	13,14	-
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12	-	6,8	8,8	16,16	
JN3D4F	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17	-	11,13
4	-	10,13	13,15	-	11,13	18.3,20
	10,11	10,14	-	13,17	13,14	-
	32,32.2	11,16	X,Y	11,13	22,23	-
	-	16,34.2	6,8	8	16	
JU93KM	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17	-	11,13
4	-	10,13	13,15	-	11,13	18.3,20
	10,11	10,14	-	13,17	13,14	-
	32,32.2	11,16	X,Y	11,13	22,23	-
	-	16,34.2	6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

JXR4NM	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
KE7344	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
KH87VQ	Identifiler®, Investigator® 24plex QS					
	16.3,17	17,23	11.3,14	15,17	N/A	11,13
4	N/A	10,13	13,15	N/A	11,13	18.3,20
	10,11	10,14	N/A	13,17	13,14	N/A
	32,32.2	11,16	X,Y	11,13	22,23	N/A
	N/A	16,34.2	6,8	8,8	16,16	
KKWCFM	Identifiler® Plus					
		17,23		15,17		11,13
4		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
KLVBVP	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
LKQH82	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
LNXXN9	PowerPlex® Fusion 5c					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

LT72UL	Identifiler® Plus					
	-	17,23	-	15,17	-	11,13
4	-	10,13	13,15	-	-	-
	10,11	10,14	-	13,17	13,14	-
	32,32.2	-	X,Y	11,13	22,23	-
	-	-	6,8	8	16	
LT8XZB	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
LUHVDT	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
LYDP8N	Identifiler® Plus					
	-	17,23	-	15,17	-	11,13
4	-	10,13	13,15	-	-	-
	10,11	10,14	-	13,17	13,14	-
	32,32.2	-	X,Y	11,13	22,23	-
	-	-	6,8	8	16	
M8Y7FN	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
ML62W6	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
MNQ3GJ	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

MTGH2K	Identifiler® Plus	17,23		15,17		11,13
4		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
MXAMUN	Identifiler®, Investigator® 24plex QS					
	16.3,17	17,23	11.3,14	15,17	N/A	11,13
4	N/A	10,13	13,15	N/A	11,13	18.3,20
	10,11	10,14	N/A	13,17	13,14	N/A
	32,32.2	11,16	X,Y	11,13	22,23	N/A
	N/A	16,34.2	6,8	8,8	16,16	
NJ7KT8	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
NURKRP	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
P96EEY	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
PD2YK4	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
PPUKND	Identifiler® Plus					
		17,23		15,17		11,13
4		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

PQ83T6	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
Q23RVX	Identifiler®					
		17,23		15,17		11,13
4		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	
Q498BG	PowerPlex® 21					
	16.3,17	17,23	-	15,17	-	11,13
4		10,13	13,15	-	-	18.3,20
	10,11	10,14	-	13,17	13,14	-
	32,32.2	-	X,Y	11,13	22,23	8,10
	12	-	6,8	8	16	
Q6MC9E	Identifiler® Plus					
		17,23		15,17		11,13
4		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
Q934Z8	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
QFGX8W	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
4		10,13	13,15			18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
QTT723	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

QXKKKH	PowerPlex® Fusion 5C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
R2EJQZ	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
RBMFAX	PowerPlex® Fusion 5C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
TCC2KZ	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
TCDUFM	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
TDTZXX	PowerPlex® FUSION 5C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
TE3ZJ	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

TT32DK	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	4	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8	16		
TYPUKD	Identifiler® Plus					
		17,23		15,17		11,13
	4	10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
		6,8	8	16		
TZ6T3G	PowerPlex® FUSION, GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	4	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
U6Q97E	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	4	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
UFCE2X	Investigator® 24plex					
	16.3,17	17,23	11.3,14	15,17	-	11,13
	4	-	10,13	13,15	-	11,13
	10,11	10,14	-	13,17	13,14	-
	32,32.2	11,16	X,Y	11,13	22,23	-
	-	16,34.2	6,8	8	16	
UFNB73	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
	4	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
UGZ2DL	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	4	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	



TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

ULH79A	Identifiler®					
		17,23		15,17		11,13
4		10,13	13,15			
		10,11	10,14	13,17	13,14	
		32,32.2		11,13	22,23	
			6,8	8,8	16,16	
V3JBBC	Identifiler® Plus					
		17,23	-	15,17	-	11,13
4		10,13	13,15	-	-	-
		10,11	10,14	13,17	13,14	-
		32,32.2	X,Y	11,13	22,23	-
		-	6,8	8	16	
V7W9HY	PowerPlex® Fusion					
		16.3,17	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
		10,11	10,14	13,17	13,14	
		32,32.2	X,Y	11,13	22,23	8,10
		12,12	6,8	8,8	16,16	
V8EYT6	GlobalFiler™					
		16.3,17	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
		10,11	10,14	13,17	13,14	
		32,32.2	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
V8TQFU	PowerPlex® Fusion 5C					
		16.3,17	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
		10,11	10,14	13,17	13,14	
		32,32.2	X,Y	11,13	22,23	8,10
		12,12	6,8	8,8	16,16	
V9LE3W	PowerPlex® fusion					
		16.3,17	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
		10,11	10,14	13,17	13,14	
		32,32.2	X,Y	11,13	22,23	8,10
		12,12	6,8	8,8	16,16	
VBWCHY	PowerPlex® Fusion 5C					
		16.3,17	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
		10,11	10,14	13,17	13,14	
		32,32.2	X,Y	11,13	22,23	8,10
		12,12	6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

VEQF26	Investigator® 24plex QS					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
VGHA3F	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
VJ8GMC	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
VNHVPA	Identifiler® Plus					
		17,23		15,17		11,13
4		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8,8	16,16	
VTUEDH	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
VUQ3NZ	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
VWVMF8	PowerPlex® Fusion 5C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

VXBXEZ	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
W7Z6CV	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
W8B2UT	PowerPlex® Fusion 5C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
WDD2BB	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
WPUTYK	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
WQJ4RX	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
WWWPH	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

WYE2J8	PowerPlex® Fusion 5C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
X3B89W	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
XATHMX	PowerPlex® Fusion 6C					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12	16,34.2	6,8	8	16	
XEMBY2	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
XL3CXB	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
XMJBC9	Identifiler® Plus					
		17,23		15,17		11,13
4		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	
XNPY8P	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
4		10,13	13,15			18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

XREW8H	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	4	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
XW4G9C	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
	4	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
	16,34.2	6,8	8,8	16,16		
Y3NWEV	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	4	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
Y4KCN7	Identifiler®					
		17,23		15,17		11,13
	4	10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
		6,8	8,8	16,16		
Y7TP9T	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
	4	10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
Y9EMKQ	Identifiler® Plus					
		17,23		15,17		11,13
	4	10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
		6,8	8,8	16,16		
YBLQA9	Identifiler® Plus					
		17,23		15,17		11,13
	4	10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
		6,8	8	16		

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

## Item 4 - STR Results

YBZDLV	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
YP2PJF	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8	16	
Z6T7JX	GlobalFiler™					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16,34.2	6,8	8,8	16,16	
Z7K6UP	Investigator® 24plex					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	
		16.3,34.2	6,8	8	16	
ZMDNXR	PowerPlex® 21					
	16.3,17	17,23		15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	8,10
	12,12		6,8	8,8	16,16	
ZMWJGE	PowerPlex® Fusion					
	16.3,17	17,23	11.3,14	15,17		11,13
4		10,13	13,15		11,13	18.3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	
ZTV668	Identifiler® Plus					
		17,23		15,17		11,13
4		10,13	13,15			
	10,11	10,14		13,17	13,14	
	32,32.2		X,Y	11,13	22,23	
			6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

Item 4e - STR Results

6VPM94	PowerPlex® Fusion					
	16,3,17	17,23	11,3,14	15,17		11,13
4e		10,13	13,15		11,13	18,3,20
	10,11	10,14		13,17	13,14	
	32,32.2	11,16	X,Y	11,13	22,23	8,10
	12		6,8	8	16	

TABLE 1

WebCode	Amplification Kits					
Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	

Item 4sp - STR Results

6VPM94	PowerPlex® Fusion					
	NR	NR	NR	NR		NR
4sp		NR	13,15		13	NR
	NR	10		NR	NR	
	32	NR	NR	NR	NR	NR
	NR		NR	NR	NR	



# YSTR Amplification Kit(s) & Results

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

## Item 1 - YSTR Results

28V8JU	PowerPlex® Fusion							NR		
1										
2EDUUQ	PowerPlex® Fusion							ND		
1										
2M4F2A	GlobalFiler™							N/A		
1										N/A
2UPB3D	PowerPlex® Fusion									
1										
2Y22LM	PowerPlex® Fusion									
1										
33CTUQ	PowerPlex® Fusion							NR		
1										
3CL2UZ	GlobalFiler™ Express							NA		
1										NA
3GD3ZL	PowerPlex® Fusion 6C									
1										
47AEGM	PowerPlex® Fusion 5C							ND		
1										
49JEHN	PowerPlex® Fusion							ND		
1										
4ATRX6	PowerPlex® Fusion							NR		
1										
6VPM94	PowerPlex® Fusion 5C							NR		
1										

TABLE 2

WebCode	Amplification Kit									
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 1 - YSTR Results

7BXXBG	PowerPlex® Fusion	1	[Redacted]									
7YMJB4	Yfiler®	1	[Redacted]									
82T7N9	PowerPlex® Fusion	1	[Redacted]									
89RLHM	GlobalFiler™	1	[Redacted]									
8AJP63	GlobalFiler™	1	[Redacted] NR NR									
8CMMBN	PowerPlex® Fusion 5C	1	[Redacted] ND									
8K27VN	PowerPlex® Fusion 5C	1	[Redacted] NR									
A3DUWD	PowerPlex® Fusion 6C	1	[Redacted]									
AQJFY3	GlobalFiler™	1	[Redacted]									
AQVERQ	Investigator® 24plex	1	[Redacted]									
AVCKQL	PowerPlex® Fusion	1	[Redacted] NR									
B2UDEQ	Investigator® 24plex	1	[Redacted]									

TABLE 2

WebCode	Amplification Kit									
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 1 - YSTR Results

B382FG	PowerPlex® Fusion										ND
1											
CA4WDF	PowerPlex® Fusion 5C										ND
1											
CDN9RC	PowerPlex® Fusion 6C										
1											
CN6WLB											
1											
CQVW7Z	PowerPlex® Fusion										
1											
CTW2FE	PowerPlex® Fusion										ND
1											
E8TXVH	Investigator® 24plex										
1											
EDJBUK	PowerPlex® Fusion 5C										
1											
EMKVWD	PowerPlex® Fusion 5C										ND
1											
EQ3VEE	PowerPlex® Fusion										ND
1											
EQJB3F	PowerPlex® Fusion 6C										
1											
ET8HRJ	Investigator® 24plex										
1											

TABLE 2

WebCode	Amplification Kit									
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 1 - YSTR Results

EYCLEW	Yfiler®	NA	NA	NA	NA	NA	NA	NA	NA	NA
1	NA	NA	NA		NA	NA		NA	NA	NA
<hr/>										
FCKD6B	PowerPlex® Fusion 6C									
1								ND		
<hr/>										
FELPFG	Yfiler®, Investigator® 24plex QS									
1										
<hr/>										
GD8HTE	PowerPlex® Fusion 5C									
1								ND		
<hr/>										
GH48B8	PowerPlex® Fusion 6c									
1										
<hr/>										
GK4KR6	PowerPlex® Fusion									
1										
<hr/>										
GVT4EQ	PowerPlex® Fusion 5c									
1										
<hr/>										
HGZ8LR	PowerPlex® Fusion 6C									
1										
<hr/>										
HRMU69	PowerPlex® Fusion 6C									
1	-	-	-	-	-	-	-	ND	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	ND	ND	-	-	-	-	-
<hr/>										
J4ERJR	PowerPlex® Fusion 6C									
1										
<hr/>										
JDKUL4	PowerPlex® Fusion Fusion 6C									
1										
<hr/>										
JFLZZA	PowerPlex® Fusion									
1								ND		

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	DYS505	DYS518	
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel

Item 1 - YSTR Results

JXR4NM	PowerPlex® Fusion 6C										
1	[REDACTED]										
KLVBVP	PowerPlex® Fusion 6C										
1	[REDACTED]										
LKQH82	PowerPlex® Fusion										
1	[REDACTED] ND										
LNXXN9	PowerPlex® Fusion 5c										
1	[REDACTED]										
LT8XZB	PowerPlex® Fusion 6C										
1	[REDACTED]										
LUHVDT	PowerPlex® Fusion										
1	[REDACTED]										
M8Y7FN	PowerPlex® Fusion										
1	[REDACTED]										
ML62W6	PowerPlex® Fusion										
1	[REDACTED] ND										
MXAMUN	Investigator® 24plex QS										
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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
NJ7KT8	PowerPlex® Fusion 6C										
1	[REDACTED]										
P96EEY	PowerPlex® Fusion 6C										
1	[REDACTED]										
PD2YK4	PowerPlex® Fusion										
1	[REDACTED] ND										

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	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 1 - YSTR Results

R2EJQZ	PowerPlex® Fusion									
1										ND
<hr/>										
TCDUFM	PowerPlex® Fusion									
1										
<hr/>										
TE3ZZJ	PowerPlex® Fusion									
1										-
<hr/>										
U6Q97E	PowerPlex® Fusion									
1										NR
<hr/>										
UFCE2X	Investigator® 24plex									
1										-
<hr/>										
UFNB73	PowerPlex® Fusion 6C									
1										
<hr/>										
UGZ2DL	PowerPlex® Fusion									
1										
<hr/>										
V7W9HY	PowerPlex® Fusion 5C									
1										ND
<hr/>										
V9LE3W	PowerPlex® Fusion									
1										nd
<hr/>										
VBWCHY	PowerPlex® Fusion 5C									
1										ND
<hr/>										
VEQF26	Yfiler®, Investigator® 24plex QS									
1		--	--	--	--	--	--	--	--	--
		--	--	--	--	--	--	--	--	--
<hr/>										
VGHA3F	GlobalFiler™									
1										-
<hr/>										

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	DYS505	DYS518	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel

Item 1 - YSTR Results

VUQ3NZ	PowerPlex® Fusion 6C																										
1												ND															
WQJ4RX	PowerPlex® Fusion 6C																										
1												ND ND															
WWWPH	PowerPlex® Fusion																										
1																											
WYE2J8	PowerPlex® Fusion 5C																										
1																											
X3B89W	PowerPlex® Fusion 6C																										
1																											
XATHMX	PowerPlex® Fusion 6C																										
1																											
XL3CXB	GlobalFiler™																										
1												NR NR															
XREW8H	PowerPlex® Fusion																										
1																											
Y3NWEV	PowerPlex® Fusion																										
1												ND															
Y7TP9T	PowerPlex® Fusion 5C																										
1												ND															
YBZDLV	PowerPlex® Fusion																										
1												NR															
ZMWJGE	PowerPlex® Fusion																										
1																											

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

## Item 2 - YSTR Results

22NZHW	Yfiler® Plus									
	35,38	14	11,15	12	30	24	11	13	13	15
	2	12	13	19	29	15	18	10	22	37
		11		19	19		19	23		12
28V8JU	Yfiler®, PowerPlex® Fusion									
		14	11,15	12	30	24	11	13	13	15
	2	12	13	19		15	18			
								23		12
2EDUUQ	PowerPlex® Fusion									
							11			
2										
2M4F2A	Yfiler® Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
	2	12	13	19	29	15	18	10	22	37
		11		19	19		19	23		12
										2
2UPB3D	PowerPlex® Fusion									
							11			
2										
2Y22LM	PowerPlex® Fusion									
							11			
2										
33CTUQ	Yfiler®, PowerPlex® Fusion									
		14	11,15	12	30	24	11	13	13	15
	2	12	13	19		15	18			
								23		12
39NE3X	Yfiler® Plus, GlobalFiler™ Express									
	35,38	14	11,15	12	30	24	11	13	13	15
	2	12	13	19	29	15	18	10	22	37
		11		19	19		19	23		12
										2
3CL2UZ	Yfiler® Plus, GlobalFiler™ Express									
	35,38	14	11,15	12	30	24	11	13	13	15
	2	12	13	19	29	15	18	10	22	37
		11		19	19		19	23		12
										2
3GD3ZL	PowerPlex® Fusion 6C									
							11			
2										
				19	19					
3RXPTM	PowerPlex® Y 23									
		14	11,15	12	30	24	11	13	13	15
	2	12	13	19		15	18		22	
		11	12	19	19		23	10		12
3VD6F9	Yfiler®, GlobalFiler™									
		14	11,15	12	30	24	11	13	13	15
	2	12	13	19		15	18			
								23		12
										2



TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

## Item 2 - YSTR Results

3Z77E2	Yfiler®	14	11,15	12	30	24	11	13	13	15
2		12	13	19	15	18		23		12
47AEGM	PowerPlex® Fusion						11			
2										
49JEHN	PowerPlex® Fusion						11			
2										
4AD436	PowerPlex® Fusion						11			
2										
4ATR6	Yfiler®, PowerPlex® Fusion	14	11,15	12	30	24	11	13	13	15
2		12	13	19	15	18		23		12
4JGKA2	Yfiler®	14	11,15	12	30	24	11	13	13	15
2		12	13	19	15	18		23		12
4JZ77X	PowerPlex® Y 23	14	11,15	12	30	24	11	13	13	15
2		12	13	19	15	18		22		
		11	12	19	19			23	10	12
4W6D7N	PowerPlex® Y PPY23	14	11,15	12	30	24	11	13	13	15
2		12	13	19	15	18		22		
		11	12	19	19			23	10	12
4WP2KC	PowerPlex® Fusion						11			
2										
62WXJJ	PowerPlex® Y 23	14	11,15	12	30	24	11	13	13	15
2		12	13	19	15	18		22		
		11	12	19	19			23	10	12
6FWZVK	PowerPlex® Y 23	14	11,15	12	30	24	11	13	13	15
2		12	13	19	15	18		22		
		11	12	19	19			23	10	12
6T3YYP							11			
2										

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

## Item 2 - YSTR Results

6VPM94	Yfiler®, PowerPlex® Fusion 5C									
	14	11,15	12	30	24	11	13	13	15	
2	12	13	19	15	18					
							23		12	
7BXXBG	PowerPlex® Fusion									
						11				
2										
7PYEGH	PowerPlex® Y 23									
	14	11,15	12	30	24	11	13	13	15	
2	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
7Y768Z	PowerPlex® Y 23, GlobalFiler™									
	14	11,15	12	30	24	11	13	13	15	
2	12	13	19	15	18		22			
	11	12	19	19			23	10	12	2
7YMJB4	Yfiler® Plus									
	35,38	14	11,15	12	30	24	11	13	13	15
2	12	13	19	29	15	18	10	22		37
	11		19	19			19	23		12
										2
82T7N9	PowerPlex® Fusion									
						11				
2										
87JHLP	Investigator® 24plex									
						11				
2										
89RLHM	GlobalFiler™									
						11				
2										
										2
8AJP63	Yfiler® Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
2	12	13	19	29	15	18	10	22		37
	11		19	19			19	23		12
										2
8CMMBN	PowerPlex® Fusion 5C									
						11				
2										
8J6VWY	Yfiler®									
	14	11,15	12	30	24	11	13	13	15	
2	12	13	19	15	18					
							23		12	
8K27VN	Yfiler®, PowerPlex® Fusion 5C									
	14	11,15	12	30	24	11	13	13	15	
2	12	13	19	15	18					
							23		12	

TABLE 2

WebCode	Amplification Kit										
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437	
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel	
<b>Item 2 - YSTR Results</b>											
8ZA8KH	PowerPlex® Y 23										
	14	11,15	12	30	24	11	13	13	15		
2	12	13	19	15	18		22				
	11	12	19	19			23	10	12		
9FKK28	PowerPlex® Fusion										
	11										
2											
9HARL4	Yfiler®, PowerPlex® Fusion										
	14	11,15	12	30	24	11	13	13	15		
2	12	13	19	15	18		23		12		
9JL9YH	PowerPlex® Y 23										
	14	11,15	12	30	24	11	13	13	15		
2	12	13	19	15	18		22				
	11	12	19	19			23	10	12		
9NXCQ6	Yfiler®, GlobalFiler™										
	14	11,15	12	30	24	11	13	13	15		
2	12	13	19	15	18		23		12	2	
9RFEU4	Yfiler®										
	N/A	14	11,15	12	30	24	11	13	13	15	
2	12	13	19	N/A	15	18	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	N/A
9U2H22	Yfiler®										
	14	11,15	12	30	24	11	13	13	15		
2	12	13	19	15	18		23		12		
A3DUWD	PowerPlex® Fusion 6C										
	11										
2											
	19 19										
A4L7FZ	Yfiler® Plus										
	35,38	14	11,15	12	30	24	11	13	13	15	
2	12	13	19	29	15	18	10	22	37		
	11		19	19			19	23	12	2	
A7ETFJ	Yfiler®										
	14	11,15	12	30	24	11	13	13	15		
2	12	13	19	15	18		23		12	2	
AQJFY3	GlobalFiler™										
	11										
2											
	2										
AQVERQ	Investigator® 24plex										
	11										
2											

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	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 2 - YSTR Results

ATKLCM	Investigator® 24plex									
2	11									
AVCFDX	Yfiler®, GlobalFiler™									
2	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18					
							23		12	2
AVCKQL	Yfiler®, PowerPlex® Fusion									
2	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18					
							23		12	
B2UDEQ	Investigator® 24plex									
2	11									
B382FG	PowerPlex® Fusion									
2	11									
B6X69N	PowerPlex® Y 23									
2	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
B8G6HC	PowerPlex® Y 23									
2	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
CA4WDF	PowerPlex® Fusion 5C									
2	11									
CDN9RC	PowerPlex® Fusion 6C									
2	11									
			19	19						
CN6WLB	Yfiler® Plus									
2	35,38	14	11,15	12	30	24	11	13	13	15
	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
										2
CQW7Z	Yfiler®, PowerPlex® Fusion									
2	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18					
							23		12	
CTW2FE	PowerPlex® Fusion									
2	11									

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel
<b>Item 2 - YSTR Results</b>										
CVM2Z6	Yfiler®, PowerPlex® Fusion 5c									
2	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18					
							23		12	
DA2VME	Yfiler®, GlobalFiler™									
2	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18					
							23		12	2
DQP2WT	Yfiler®									
2	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18					
							23		12	
DV4R9F	Yfiler®, GlobalFiler™									
2	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18					
							23		12	2
E2H3TU	Yfiler® Plus									
2	35,38	14	11,15	12	30	24	11	13	13	15
	12	13	19	29	15	18	10	22	37	
		11		19	19		19	23	12	2
E4NENA	PowerPlex® Y 23									
2	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18		22			
		11	12	19	19		23	10	12	
E8TXVH										
2						11				
ECZNXN	PowerPlex® Y 23									
2	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18		22			
		11	12	19	20		23	10	12	
EDJBUK	Yfiler®									
2	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18					
							23		12	
EMKVWD	PowerPlex® Fusion 5C									
2						11				
EQ3VEE	PowerPlex® Y Y23									
2	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18		22			
		11	12	19	19		23	10	12	
EQJB3F	PowerPlex® Fusion 6C									
2						11				
			19	19						

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

## Item 2 - YSTR Results

ERFM8V	Yfiler®, GlobalFiler™									
	14	11,15	12	30	24	11	13	13	15	
2	12	13	19	15	18					
							23		12	2
ET8HRJ	Investigator® 24plex									
						11				
2										
EYCLEW	Yfiler®									
	14	11,15	12	30	24	11	13	13	15	
2	12	13	19	15	18					
							23		12	
EYYPAR	Yfiler®									
	14	11,15	12	30	24	11	13	13	15	
2	12	13	19	15	18					
							23		12	
FCKD6B	PowerPlex® Fusion 6C									
						11				
2										
			19	19						
FELPFG	Yfiler®, Investigator® 24plex QS									
	14	11,15	12	30	24	11	13	13	15	
2	12	13	19	15	18					
							23		12	
FH4PXH	Yfiler® Plus									
	35,38	14	11,15	12	30	24	11	13	13	15
2	12	13	19	29	15	18	10	22	37	
				11	19	19	19	23	12	2
G2TQ3K	PowerPlex® Fusion 5C									
						11				
2										
GD8HTE	PowerPlex® Fusion 5C									
						11				
2										
GH48B8	PowerPlex® Fusion 6C									
						11				
2										
			19	19						
GK4KR6	PowerPlex® Fusion									
						11				
2										
GNTPPJ	Yfiler® Plus, GlobalFiler™ Express									
	35,38	14	11,15	12	30	24	11	13	13	15
2	12	13	19	29	15	18	10	22	37	
				11	19	19	19	23	12	2

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	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 2 - YSTR Results

GPXC3M	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
2	12	13	19		15	18				
								23		12
GVMRPA	PowerPlex® Y 23									
		14	11,15	12	30	24	11	13	13	15
2	12	13	19		15	18		22		
		11	12	19	19			23	10	12
GVT4EQ	PowerPlex® Fusion 5c									
							11			
2										
GWJ98X	PowerPlex® Fusion									
							11			
2										
H2A47M	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
2	12	13	19		15	18				
								23		12
HGZ8LR	Yfiler®, PowerPlex® Fusion 6C									
		14	11,15	12	30	24	11	13	13	15
2	12	13	19		15	18				
				19	19			23		12
HHVKDQ	PowerPlex® Fusion									
							11			
2										
HRMU69	PowerPlex® Fusion 6C									
	-	-	-	-	-	-	11	-	-	-
2	-	-	-	-	-	-	-	-	-	-
	-	-	-	19	19	-	-	-	-	-
J2NMPK	PowerPlex® Fusion 5C									
							11			
2										
J4ERJR	PowerPlex® Fusion 6C									
							11			
2										
			19	19						
J4V9DK	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
2	12	13	19		15	18				
								23		12
J67XPA	PowerPlex® Y 23									
		14	11,15	12	30	24	11	13	13	15
2	12	13	19		15	18		22		
		11	12	19	19			23	10	12

TABLE 2

WebCode	Amplification Kit										
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437	
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel

Item 2 - YSTR Results

J8ULYP	Yfiler®										
	-	14	11,15	12	30	24	11	13	13	15	
2	12	13	19	-	15	18	-	-	-	-	
	-	-	-	-	-	-	-	23	-	12	-
J8W6A8	PowerPlex® Y 23										
		14	11,15	12	30	24	11	13	13	15	
2	12	13	19		15	18		22			
		11	12	19	19			23	10	12	
JBWFWU	Yfiler®										
		14	11,15	12	30	24	11	13	13	15	
2	12	13	19		15	18					
								23		12	2
JDKUL4	PowerPlex® Fusion Fusion 6C										
								11			
2											
				19	19						
JFLZZA											
								11			
2											
JN3D4F	Yfiler® Plus										
	35,38	14	11,15	12	30	24	11	13	13	15	
2	12	13	19	29	15	18	10	22		37	
		11		19	19		19	23		12	
JU93KM	PowerPlex® Y 23, GlobalFiler™										
		14	11,15	12	30	24	11	13	13	15	
2	12	13	19		15	18		22			
		11	12	19	19			23	10	12	2
JXR4NM	PowerPlex® Fusion 6C										
								11			
2											
				19	19						
KE7344	Yfiler® Plus										
	35,38	14	11,15	12	30	24	11	13	13	15	
2	12	13	19	29	15	18	10	22		37	
		11		19	19		19	23		12	2
KH87VQ	Yfiler®, Investigator® 24plex QS										
	N/A	14	11,15	12	30	24	11	13	13	15	
2	12	13	19	N/A	15	18	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	N/A
KKWCFM	Yfiler®										
		14	11,15	12	30	24	11	13	13	15	
2	12	13	19		15	18					
								23		12	
KLVBVP	PowerPlex® Fusion 6C										
								11			
2											
				19	19						



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	DYS505	DYS518	
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel

## Item 2 - YSTR Results

LKQH82	PowerPlex® Fusion										
2	11										
LNXXN9	PowerPlex® Y 23, PowerPlex® Fusion 5c										
2	14	11,15	12	30	24	11	13	13	15		
	12	13	19	15	18		22				
	11	12	19	19			23	10	12		
LT72UL	Yfiler®										
2	14	11,15	12	30	24	11	13	13	15		
	12	13	19	-	15	18	-	-	-	-	-
	-	-	-	-	-	-	-	23	-	12	-
LT8XZB	PowerPlex® Fusion 6C										
2	11										
			19	19							
LUHVDT	PowerPlex® Fusion										
2	11										
LYDP8N	Yfiler®										
2	14	11,15	12	30	24	11	13	13	15		
	12	13	19	-	15	18	-	-	-	-	-
	-	-	-	-	-	-	-	23	-	12	-
M2D9V8	Yfiler®, GlobalFiler™										
2	14	11,15	12	30	24	11	13	13	15		
	12	13	19	15	18						
							23		12	2	
M8Y7FN	PowerPlex® Fusion										
2	11										
ML62W6	PowerPlex® Fusion										
2	11										
MNQ3GJ	PowerPlex® Y 23, GlobalFiler™										
2	14	11,15	12	30	24	11	13	13	15		
	12	13	19	15	18		22				
	11	12	19	19			23	10	12	2	
MTGH2K	Yfiler®										
2	14	11,15	12	30	24	11	13	13	15		
	12	13	19	15	18						
							23		12		
MXAMUN	Yfiler®, Investigator® 24plex QS										
2	N/A	14	11,15	12	30	24	11	13	13	15	
	12	13	19	N/A	15	18	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	N/A

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	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 2 - YSTR Results

NJ7KT8	PowerPlex® Fusion 6C									
2	11									
	19 19									
NURKRP	PowerPlex® Fusion 6C									
2	11									
	2									
P96EEY	PowerPlex® Fusion 6C									
2	11									
	19 19									
PD2YK4	PowerPlex® Fusion									
2	11									
PPUKND	Yfiler® plus									
2	35,38	14	11,15	12	30	24	11	13	13	15
	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
PQ83T6	Yfiler®									
2	14	11,15	12	30	24	11	13	13	15	
	12	13	19		15	18				
								23		12 2
Q6MC9E	Yfiler®									
2	14	11,15	12	30	24	11	13	13	15	
	12	13	19		15	18				
								23		12
Q934Z8	GlobalFiler™ Express									
2	11									
	2									
QFGX8W	PowerPlex® Y 23									
2	14	11,15	12	30	24	11	13	13	15	
	12	13	19		15	18		22		
		11	12	19	19			23	10	12
QTT723	Yfiler®, GlobalFiler™									
2	14	11,15	12	30	24	11	13	13	15	
	12	13	19		15	18				
								23		12 2
QXKKKH	PowerPlex® Fusion 5C									
2	11									
R2EJQZ	PowerPlex® Fusion									
2	11									

TABLE 2

WebCode	Amplification Kit									
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

## Item 2 - YSTR Results

RBMFAX										
2	11									
TCC2KZ	Yfiler® Plus, GlobalFiler™ Express									
2	35,38	14	11,15	12	30	24	11	13	13	15
	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
										2
TCDUFM	PowerPlex® Fusion									
2	11									
TDTZXX	PowerPlex® Y Y23									
2		14	11,15	12	30	24	11	13	13	15
	12	13	19		15	18		22		
		11	12	19	19			23	10	12
TE3ZZJ	Yfiler®, PowerPlex® Fusion									
2		14	11,15	12	30	24	11	13	13	15
	12	13	19		15	18				
								23		12
TT32DK	Yfiler®									
2		14	11,15	12	30	24	11	13	13	15
	12	13	19		15	18				
								23		12
										2
TYPUKD	Yfiler®									
2		14	11,15	12	30	24	11	13	13	15
	12	13	19		15	18				
								23		12
										2
TZ6T3G	Yfiler®, PowerPlex® Fusion									
2	35,38	14	11,15	12	30	24	11	13	13	15
	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
										2
U6Q97E	Yfiler®, PowerPlex® Fusion									
2		14	11,15	12	30	24	11	13	13	15
	12	13	19		15	18				
								23		12
UFCE2X	Investigator® 24plex									
2	11									
UFNB73	PowerPlex® Fusion 6C									
2	11									
				19	19					
UGZ2DL	PowerPlex® Fusion									
2	11									

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

## Item 2 - YSTR Results

V3JBBC	Yfiler®									
	-	14	11,15	12	30	24	11	13	13	15
2	12	13	19	-	15	18	-	-	-	-
	-	-	-	-	-	-	-	23	-	12
V7W9HY	PowerPlex® Fusion 5C									
	11									
2										
V8EY6	Yfiler® Plus, GlobalFiler™ Express									
	35,38	14	11,15	12	30	24	11	13	13	15
2	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
										2
V8TQFU	PowerPlex® Y 23									
		14	11,15	12	30	24	11	13	13	15
2	12	13	19		15	18		22		
		11	12	19	19			23	10	12
V9LE3W	PowerPlex® Y 23									
		14	11,15	12	30	24	11	13	13	15
2	12	13	19		15	18		22		
		11	12	19	19			23	10	12
VBWCHY	PowerPlex® Fusion 5C									
	11									
2										
VEQF26	Yfiler®, Investigator® 24plex QS									
		14	11,15	12	30	24	11	13	13	15
2	12	13	19		15	18				
								23		12
VGHA3F	Yfiler® Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
2	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
										2
VJ8GMC	GlobalFiler™									
		14	11,15	12	30	24	11	13	13	15
2	12	13	19		15	18		22		
		11	12	19	19			23	10	12
										2
VTUEDH	GlobalFiler™									
	11									
2										
VUQ3NZ	PowerPlex® Fusion 6C									
	11									
2										
			19	19						
VWVMF8	GlobalFiler™									
	11									
2										

TABLE 2

WebCode	Amplification Kit										
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437	
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	
Item	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel
<b>Item 2 - YSTR Results</b>											
VXBXEZ	Yfiler®, GlobalFiler™										
		14	11,15	12	30	24	11	13	13	15	
2	12	13	19		15	18					
								23		12	2
W7Z6CV	Yfiler®, GlobalFiler™										
		14	11,15	12	30	24	11	13	13	15	
2	12	13	19		15	18					
								23		12	2
W8B2UT	PowerPlex® Y 23										
		14	11,15	12	30	24	11	13	13	15	
2	12	13	19		15	18		22			
		11	12	19	19			23	10	12	
WDD2BB	PowerPlex® Y 23, GlobalFiler™										
		14	11,15	12	30	24	11	13	13	15	
2	12	13	19		15	18		22			
		11	12	19	19			23	10	12	2
WPUTYK	Yfiler®, PowerPlex® Fusion										
		14	11,15	12	30	24	11	13	13	15	
2	12	13	19		15	18					
								23		12	
WQJ4RX	PowerPlex® Fusion 6C										
							11				
2											
			19	19							
WWWPH	PowerPlex® Fusion										
							11				
2											
WYE2J8	PowerPlex® Fusion 5C										
							11				
2											
X3B89W	PowerPlex® Fusion 6C										
							11				
2											
			19	19							
XATHMX	PowerPlex® Fusion 6C										
							11				
2											
			19	19							
XEMBY2	Yfiler® plus										
	35,38	14	11,15	12	30	24	11	13	13	15	
2	12	13	19	29	15	18	10	22		37	
		11		19	19		19	23		12	2
XL3CXB	Yfiler® Plus, GlobalFiler™										
	35,38	14	11,15	12	30	24	11	13	13	15	
2	12	13	19	29	15	18	10	22		37	
		11		19	19		19	23		12	2

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	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 2 - YSTR Results

XMJBC9	Yfiler®	14	11,15	12	30	24	11	13	13	15	
	2	12	13	19	15	18		23		12	
XNPY8P	PowerPlex® Y 23	14	11,15	12	30	24	11	13	13	15	
	2	12	13	19	15	18		22			
		11	12	19	19			23	10	12	
XREW8H	PowerPlex® Fusion						11				
	2										
XW4G9C	GlobalFiler™						11				
	2									2	
Y3NWEV	PowerPlex® Fusion						11				
	2										
Y7TP9T	PowerPlex® Fusion 5C						11				
	2										
YBLQA9	Yfiler®	14	11,15	12	30	24	11	13	13	15	
	2	12	13	19	15	18		23		12	
YBZDLV	Yfiler®, PowerPlex® Fusion	14	11,15	12	30	24	11	13	13	15	
	2	12	13	19	15	18		23		12	
YP2PJF	Yfiler®	14	11,15	12	30	24	11	13	13	15	
	2	12	13	19	15	18		23		12	
										2	
Z6T7JX	Yfiler® YFiler Plus, GlobalFiler™	35,38	14	11,15	12	30	24	11	13	13	15
	2	12	13	19	29	15	18	10	22		37
		11		19	19			19	23		12
Z7K6UP	Investigator® 24plex						11				
	2										
ZFRVLR	GlobalFiler™						11				
	2										
										2	

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	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 2 - YSTR Results

ZMWJGE	PowerPlex® Fusion										
		11									
2											
<hr/>											
ZTV668	Yfiler®	14	11,15	12	30	24	11	13	13	15	
2		12	13	19	15	18					
								23		12	

TABLE 2

WebCode	Amplification Kit									
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 3 - YSTR Results

9U2H22	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
3	12	13	19		15	18				
								23		12
EDJBUK	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
3	12	13	19		15	18				
								23		12
JU93KM	PowerPlex® Y 23, GlobalFiler™									
		14	11,15	12	30	24	11	13	13	15
3	12	13	19		15	18		22		
		11	12	19	19			23	10	12
										2
JXR4NM	PowerPlex® Fusion 6C									
							11			
3										
				19	19					
MTGH2K	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
3	12	13	19		15	18				
								23		12



TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel
<b>Item 3e - YSTR Results</b>										
22NZHW	Yfiler® Plus									
	35,38	14	11,15	12	30	24	11	13	13	15
3e	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
28V8JU	Yfiler®, PowerPlex® Fusion									
		14	11,15	12	30	24	11	13	13	15
3e	12	13	19		15	18				
								23		12
2EDUUQ	PowerPlex® Fusion									
										[11]
3e										
2M4F2A	Yfiler® Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
3e	12	13	19	29	15	18	10	22		37
		NR		19	19		19	23		12 [2]
2UPB3D	PowerPlex® Fusion									
										11
3e										
2Y22LM	PowerPlex® Fusion									
										11
3e										
33CTUQ	Yfiler®, PowerPlex® Fusion									
		14	11,15	12	30	24	11	13	13	15
3e	12	13	19		15	18				
								23		12
39NE3X	Yfiler® Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
3e	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12 2
3CL2UZ	Yfiler® Plus, GlobalFiler™ Express									
										NA
3e										
										NA
3GD3ZL	PowerPlex® Fusion 6C									
										11
3e										
				19	19					
3RXPTM	PowerPlex® Y 23									
3e										
3VD6F9	Yfiler®, GlobalFiler™									
		14	11,15	12	30	24	11	13	13	15
3e	12	13	19		15	18				
								23		12 2

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	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 3e - YSTR Results

3Z77E2	Yfiler®									
	14	11,15	12	30	24	11	13	13	15	
3e	12	13	19	15	18					
							23		12	
47AEGM	PowerPlex® Fusion									
							ND			
3e										
49JEHN	PowerPlex® Fusion									
							ND			
3e										
4AD436	PowerPlex® Fusion									
							11			
3e										
4ATR6	Yfiler®, PowerPlex® Fusion									
	14	11,15	12	30	24	11	13	13	15	
3e	12	13	19	15	18					
							23		12	
4JGKA2	Yfiler®									
	14	11,15	12	30	24	11	13	13	15	
3e	12	13	19	15	18					
							23		12	
4JZ77X	PowerPlex® Y 23									
3e										
4W6D7N	PowerPlex® Y PPY23									
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3e	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	
4WP2KC	PowerPlex® Fusion									
							11			
3e										
62WXJJ	PowerPlex® Y 23									
	14	11,15	12	30	24	11	13	13	15	
3e	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
6FWZVK	PowerPlex® Y 23									
	14	11,15	12	30	24	11	13	13	15	
3e	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
6T3YYP										
							(11)			
3e										

TABLE 2

WebCode	Amplification Kit									
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

## Item 3e - YSTR Results

6VPM94	Yfiler®, PowerPlex® Fusion 5C									
	14	11,15	12	30	24	11	13	13	15	
3e	12	13	19	15	18					
								23		12
7BXXBG	PowerPlex® Fusion									
								[11]		
3e										
7PYEGH	PowerPlex® Y 23									
3e										
7Y768Z	PowerPlex® Y 23, GlobalFiler™									
	14	11,15	12	30	24	11	13	13	15	
3e	12	13	19	15	18		22			
	11	12	19	19			23	10	12	2
7YMJB4	Yfiler® Plus									
	35,38	14	11,15	12	30	24	11	13	13	15
3e	12	13	19	29	15	18	10	22		37
	11		19	19		19	23		12	[2]
82T7N9	PowerPlex® Fusion									
						11				
3e										
87JHLP	Investigator® 24plex									
								[11]		
3e										
89RLHM	GlobalFiler™									
						11				
3e										
										2
8AJP63	Yfiler® Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
3e	12	13	19	29	15	18	10	22		37
	11		19	19		19	23		12	2
8CMMBN	PowerPlex® Fusion 5C									
								[11]		
3e										
8J6VWY	Yfiler®									
	14	11,15	12	30	24	11	13	13	15	
3e	12	13	19	15	18					
								23		12
8K27VN	Yfiler®, PowerPlex® Fusion 5C									
	14	11,15	12	30	24	11	13	13	15	
3e	12	13	19	15	18					
								23		12

TABLE 2

WebCode	Amplification Kit										
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437	
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel
<b>Item 3e - YSTR Results</b>											
8ZA8KH	PowerPlex® Y 23										
	14	11,15	12	30	24	11	13	13	15		
3e	12	13	19	15	18		22				
	11	12	19	19			23	10	12		
9FKK28	PowerPlex® Fusion										
	11										
3e											
9HARL4	Yfiler®, PowerPlex® Fusion										
	14	11,15	12	30	24	11	13	13	15		
3e	12	13	19	15	18			23		12	
9JL9YH	PowerPlex® Y 23										
	14	11,15	12	30	24	11	13	13	15		
3e	12	13	19	15	18		22				
	11	12	19	19			23	10	12		
9NXCQ6	Yfiler®, GlobalFiler™										
	[11]										
3e											
	[2]										
9RFEU4	Yfiler®										
	N/A	14	11,15	12	30	24	11	13	13	15	
3e	12	13	19	N/A	15	18	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	N/A
A3DUWD	PowerPlex® Fusion 6C										
	11										
3e											
	19 19										
A4L7FZ	Yfiler® Plus										
	35,38	14	11,15	12	30	24	11	13	13	15	
3e	12	13	19	29	15	18	10	22		37	
	11		19	19			19	23		12	[2]
AQJFY3	GlobalFiler™										
	[11]										
3e											
	[2]										
AQVERQ	Investigator® 24plex										
	[11]										
3e											
ATKLCM	Investigator® 24plex										
	11										
3e											
AVCFDX	Yfiler®, GlobalFiler™										
	14	11,15	12	30	24	11	13	13	15		
3e	12	13	19	15	18						
	23 12 2										

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	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

## Item 3e - YSTR Results

AVCKQL	Yfiler®, PowerPlex® Fusion									
		14	11,15	12	30	24	11	13	13	15
3e	12	13	19		15	18				
								23		12
B2UDEQ	Investigator® 24plex									
								[11]		
3e										
B382FG	PowerPlex® Fusion									
								ND		
3e										
B6X69N	PowerPlex® Y 23									
3e										
B8G6HC	PowerPlex® Y 23									
		-	11,15	12	30	24	11	-	13	-
3e	12	13	19		15	18		22		
		11	12	19	19			23	10	12
CA4WDF	PowerPlex® Fusion 5C									
							11			
3e										
CDN9RC	PowerPlex® Fusion 6C									
							11			
3e										
				19	19					
CN6WLB	Yfiler® Plus									
	35,38	14	11,15	12	30	24	11	13	13	15
3e	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
										2
CQW7Z	Yfiler®, PowerPlex® Fusion									
		14	11,15	12	30	24	11	13	13	15
3e	12	13	19		15	18				
								23		12
CTW2FE	PowerPlex® Fusion									
								ND		
3e										
CVM2Z6	Yfiler®, PowerPlex® Fusion 5c									
		14	11,15	12	30	24	11	13	13	15
3e	12	13	19		15	18				
								23		12
DA2VME	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
3e	12	13	19		15	18				
								23		12

TABLE 2

WebCode	Amplification Kit									
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 3e - YSTR Results

DQP2WT	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
3e	12	13	19		15	18				
								23		12
E2H3TU	Yfiler® Plus									
	35,38	14	11,15	12	30	24	11	13	13	15
3e	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
										[2]
E4NENA										
		14	11,15	12	30	24	11	13	13	15
3e	12	13	19		15	18		22		
		11	12	19	19			23	10	12
E8TXVH	Investigator® 24plex									
							11			
3e										
ECZNXN	PowerPlex® Y 23									
3e										
EMKVWD	PowerPlex® Fusion 5C									
							ND			
3e										
EQ3VEE	PowerPlex® Y Y23, PowerPlex® Fusion									
							ND			
3e										
EQJB3F	PowerPlex® Fusion 6C									
							11			
3e										
				19	19					
ERFM8V	Yfiler®, GlobalFiler™									
		14	11,15	12	30	24	11	13	13	15
3e	12	13	19		15	18				
								23		12
										2
ET8HRJ	Investigator® 24plex									
							[11]			
3e										
EYCLEW	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
3e	12	13	19		15	18				
								23		12
EYYPAR	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
3e	12	13	19		15	18				
								23		12

TABLE 2

WebCode	Amplification Kit									
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 3e - YSTR Results

FCKD6B	PowerPlex® Fusion 6C									
3e	[11]									
			[19]	[19]						
FELPFG	Yfiler®, Investigator® 24plex QS									
3e	12	13	19		15	18		23		12
FH4PXH	Yfiler® Plus									
3e	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
										2
G2TQ3K	PowerPlex® Fusion 5C									
3e	11									
GD8HTE	PowerPlex® Fusion 5c									
3e	ND									
GH48B8	PowerPlex® Fusion 6C									
3e	11									
			19	19						
GK4KR6	PowerPlex® Fusion									
3e	[11]									
GNTPPJ	Yfiler® Plus, GlobalFiler™									
3e	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
										2
GPXC3M	Yfiler®									
3e	12	13	19		15	18		23		12
GVNRPA	PowerPlex® Y 23									
3e	12	13	19		15	18		22		15
		11	12	19	19			23	10	12
GVT4EQ	PowerPlex® Fusion 5c									
3e	11									
GWJ98X	PowerPlex® Fusion									
3e	11									

TABLE 2

WebCode	Amplification Kit									
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 3e - YSTR Results

H2A47M	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
3e	12	13	19		15	18				
								23		12
HGZ8LR	Yfiler®, PowerPlex® Fusion 6C									
							11			
3e										
			19	19						
HHVKDQ	PowerPlex® Fusion									
							11			
3e										
HRMU69	PowerPlex® Fusion 6C									
	-	-	-	-	-	-	[11]	-	-	-
3e	-	-	-	-	-	-	-	-	-	-
	-	-	-	[19]	ND	-	-	-	-	-
J2NMPK	PowerPlex® Fusion 5C									
3e										
J4ERJR	PowerPlex® Fusion 6C									
							[11]			
3e										
J4V9DK	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
3e	12	13	19		15	18				
								23		12
J67XPA	PowerPlex® Y 23									
							[11]			
3e										
J8ULYP	Yfiler®									
	-	-	-	-	-	-	-	-	-	-
3e	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
J8W6A8	PowerPlex® Y 23									
3e										
JBWFWU	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
3e	12	13	19		15	18				
								23		12
									12	2
JDKUL4	PowerPlex® Fusion Fusion 6C									
							11			
3e										
			19	19						



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	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 3e - YSTR Results

JFLZZA	PowerPlex® Fusion										
3e	[REDACTED]										
JN3D4F	Yfiler® Plus										
	35,38	14	11,15	12	30	24	11	13	13	15	
3e	12	13	19	29	15	18	10	22		37	
		11		19	19		19	23		12	
KE7344	Yfiler® Plus										
3e	[REDACTED]										
	2										
KH87VQ	Yfiler®, Investigator® 24plex QS										
	N/A	14	11,15	12	30	24	11	13	13	15	
3e	12	13	19	N/A	15	18	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	N/A
KKWCFM	Yfiler®										
		14	11,15	12	30	24	11	13	13	15	
3e	12	13	19		15	18					
								23		12	
KLVBVP	PowerPlex® Fusion 6C										
							11				
3e	[REDACTED]										
			19	19							
LKQH82	PowerPlex® Fusion										
							11				
3e	[REDACTED]										
LNXXN9	PowerPlex® Y 23, PowerPlex® Fusion 5c										
											[11]
3e	[REDACTED]										
LT72UL	Yfiler®										
	-	-	-	-	-	-	-	-	-	-	-
3e	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
LT8XZB	PowerPlex® Fusion 6C										
							11				
3e	[REDACTED]										
			19								
LUHVDT	PowerPlex® Fusion										
							11				
3e	[REDACTED]										
LYDP8N	Yfiler®										
	-	-	-	-	-	-	-	-	-	-	-
3e	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-

TABLE 2

WebCode	Amplification Kit									
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 3e - YSTR Results

M8Y7FN	PowerPlex® Fusion										
3e	[REDACTED]										
ML62W6	PowerPlex® Fusion										
3e	ND										
MNQ3GJ	PowerPlex® Y 23, GlobalFiler™										
3e	14	*15	12	30	24	11	13	13	15		
	12	13	19	**	18		22				
	11	12	19	19			23	10	12	2	
MXAMUN	Yfiler®, Investigator® 24plex QS										
3e	N/A	14	11,15	12	30	24	11	13	13	15	
	12	13	19	N/A	15	18	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	N/A
NJ7KT8	PowerPlex® Fusion 6C										
3e	11										
			19	19							
NURKRP											
3e	[11]										
	[2]										
P96EEY	PowerPlex® Fusion 6C										
3e	11										
			19	19							
PD2YK4	PowerPlex® Fusion										
3e	[11]										
PPUKND	Yfiler® plus										
3e	[REDACTED]										
PQ83T6	Yfiler®										
3e	11										
	2										
Q6MC9E	Yfiler®										
3e	14	11,15	12	30	24	11	13	13	15		
	12	13	19	15	18						
							23		12		
Q934Z8	GlobalFiler™										
3e	[REDACTED]										
	2										

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	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 3e - YSTR Results

QFGX8W	PowerPlex® Y 23									
3e	[REDACTED]									
QTT723	Yfiler®, GlobalFiler™									
3e	11									
	2									
QXKKKH	PowerPlex® Fusion 5C									
3e	11									
R2EJQZ	PowerPlex® Fusion									
3e	[11]									
RBMFAX										
3e	11									
TCC2KZ	Yfiler® Plus, GlobalFiler™									
3e	35,38	14	11,15	12	30	24	11	13	13	15
	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
	2									
TCDUFM	PowerPlex® Fusion									
3e	[REDACTED]									
TDTZXX	PowerPlex® Y Y23									
3e		14	11,15	12	30	24	11	13	13	
	12		19		15	18		22		
		11	12	19	19			23		12
TE3ZZJ	Yfiler®, PowerPlex® Fusion									
3e		14	11,15	12	30	24	11	13	13	15
	12	13	19		15	18				
								23		12
TT32DK	Yfiler®									
3e		14	11,15	12	30	24	11	13	13	15
	12	13	19		15	18				
								23		12
	2									
TYPUKD	Yfiler®									
3e		14	11,15	12	30	24	11	13	13	15
	12	13	19		15	18				
								23		12
TZ6T3G	Yfiler® PLUS, GlobalFiler™, PowerPlex® Fusion									
3e	[REDACTED]									

TABLE 2

WebCode	Amplification Kit									
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 3e - YSTR Results

U6Q97E	Yfiler®, PowerPlex® Fusion									
	14	11,15	12	30	24	11	13	13	15	
3e	12	13	19	15	18					
							23		12	
UFCE2X	Investigator® 24plex									
							[11]			
3e										
UFNB73	PowerPlex® Fusion 6C									
							11			
3e										
			19	19						
UGZ2DL	PowerPlex® Fusion									
							11			
3e										
V3JBBC	Yfiler®									
	-	-	-	-	-	-	-	-	-	-
3e	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
V7W9HY	PowerPlex® Fusion 5C									
							11			
3e										
V8EYT6	Yfiler® Plus, GlobalFiler™									
	35,38	15	12	30					15	
3e		13	19			10	22			
		11		19	19	19	23			
V8TQFU	PowerPlex® Y 23									
	14	11,15	Negative	30	24	11	13	13	Negative	
3e	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
V9LE3W	PowerPlex® Y 23, PowerPlex® Fusion									
							[11]			
3e										
VBWCHY	PowerPlex® Fusion 5C									
							[11]			
3e										
VEQF26	Yfiler®, Investigator® 24plex QS									
	14	11,15	12	30	24	11	13	13	15	
3e	12	13	19	15	18					
							23		12	
VGHA3F	Yfiler® Plus, GlobalFiler™									
	-	14	-	12	30	24	11	13	-	-
3e	12	-	-	-	15	18	-	22		37
					19		19	23		2

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	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 3e - YSTR Results

VJ8GMC	PowerPlex® Y 23, GlobalFiler™									
3e	11									
	2									
VTUEDH	GlobalFiler™									
3e	11									
	2									
VUQ3NZ	PowerPlex® Fusion 6C									
3e	11									
	19 19									
VWWMF8										
3e	11									
VXBXEZ	Yfiler®, GlobalFiler™									
3e										
W7Z6CV	Yfiler®, GlobalFiler™									
3e	11									
	2									
W8B2UT	PowerPlex® Y 23									
3e	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
WDD2BB	PowerPlex® Y 23, GlobalFiler™									
3e	11									
	2									
WPUTYK	Yfiler®, PowerPlex® Fusion									
3e	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18					
							23		12	
WQJ4RX	PowerPlex® Fusion 6C									
3e	11									
	19 19									
WWWPH	PowerPlex® Fusion									
3e	11									
WYE2J8	PowerPlex® Fusion 5C									
3e	11									

TABLE 2

WebCode	Amplification Kit									
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 3e - YSTR Results

X3B89W	PowerPlex® Fusion 6C									
3e	11									
	19 19									
XATHMX	PowerPlex® Fusion 6C									
3e	11									
	19 19									
XEMBY2	Yfiler® plus									
3e	35,38	14	11,15	12	30	24	11	13	13	15
	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12 2
XL3CXB	Yfiler® Plus, GlobalFiler™									
3e	35,38	14	11,15	12	30	24	11	13	13	15
	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12 2
XMJBC9	Yfiler®									
3e		14	11,15	12	30	24	11	13	13	15
	12	13	19		15	18				
								23		12
XNPY8P	PowerPlex® Y 23									
3e		14	11,15	12	30	24	11	13	13	15
	12	13	19		15	18		22		
		11	12	19	19			23	10	12
XREW8H	PowerPlex® Fusion									
3e	11									
XW4G9C	GlobalFiler™									
3e										
Y3NWEV	PowerPlex® Fusion									
3e	ND									
Y7TP9T	PowerPlex® Fusion 5C									
3e	11									
YBLQA9	Yfiler®									
3e		14	11,15	12	30	24	11	13	13	15
	12	13	19		15	18				
								23		12
YBZDLV	Yfiler®, PowerPlex® Fusion									
3e		14	11,15	12	30	24	11	13	13	15
	12	13	19		15	18				
								23		12

TABLE 2

WebCode	Amplification Kit									
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 3e - YSTR Results

YP2PJF	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
3e	12	13	19		15	18				
								23		12 2
Z6T7JX	Yfiler® YFiler Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
3e	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12 2
Z7K6UP	Investigator® 24plex									
										[11]
3e										
ZMWJGE	PowerPlex® Fusion									
							11			
3e										
ZTV668	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
3e	12	13	19		15	18				
								23		12

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel
<b>Item 3sp - YSTR Results</b>										
22NZHW	Yfiler® Plus									
	35,38	14	11,15	12	30	24	11	13	13	15
3sp	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
28V8JU	Yfiler®, PowerPlex® Fusion									
		14	11,15	12	30	24	11	13	13	15
3sp	12	13	19		15	18				
								23		12
2EDUUQ	PowerPlex® Fusion									
							11			
3sp										
2M4F2A	Yfiler® Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
3sp	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
										2
2UPB3D	PowerPlex® Fusion									
							11			
3sp										
2Y22LM	PowerPlex® Fusion									
							11			
3sp										
33CTUQ	Yfiler®, PowerPlex® Fusion									
		14	11,15	12	30	24	11	13	13	15
3sp	12	13	19		15	18				
								23		12
39NE3X	Yfiler® Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
3sp	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
										2
3CL2UZ	Yfiler® Plus, GlobalFiler™ Express									
	35,38	14	11,15	12	30	24	11	13	13	15
3sp	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
										2
3GD3ZL	PowerPlex® Fusion 6C									
							11			
3sp										
				19	19					
3RXPTM	PowerPlex® Y 23									
		14	11,15	12	30	24	11	13	13	15
3sp	12	13	19		15	18		22		
		11	12	19	19			23	10	12
3VD6F9	Yfiler®, GlobalFiler™									
		14	11,15	12	30	24	11	13	13	15
3sp	12	13	19		15	18				
								23		12
										2



TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

## Item 3sp - YSTR Results

3Z77E2	Yfiler®	14	11,15	12	30	24	11	13	13	15
3sp		12	13	19	15	18		23		12
47AEGM	PowerPlex® Fusion						11			
3sp										
49JEHN	PowerPlex® Fusion						11			
3sp										
4AD436	PowerPlex® Fusion						11			
3sp										
4ATR6	Yfiler®, PowerPlex® Fusion	14	11,15	12	30	24	11	13	13	15
3sp		12	13	19	15	18		23		12
4JGKA2	Yfiler®	14	11,15	12	30	24	11	13	13	15
3sp		12	13	19	15	18		23		12
4JZ77X	PowerPlex® Y 23	14	11,15	12	30	24	11	13	13	15
3sp		12	13	19	15	18		22		
		11	12	19	19			23	10	12
4W6D7N	PowerPlex® Y PPY23	14	11,15	12	30	24	11	13	13	15
3sp		12	13	19	15	18		22		
		11	12	19	19			23	10	12
4WP2KC	PowerPlex® Fusion						11			
3sp										
62WXJJ	PowerPlex® Y 23	14	11,15	12	30	24	11	13	13	15
3sp		12	13	19	15	18		22		
		11	12	19	19			23	10	12
6FWZVK	PowerPlex® Y 23	14	11,15	12	30	24	11	13	13	15
3sp		12	13	19	15	18		22		
		11	12	19	19			23	10	12
6T3YYP							11			
3sp										

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel
<b>Item 3sp - YSTR Results</b>										
6VPM94	Yfiler®, PowerPlex® Fusion 5C									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18					
								23		12
7BXXBG	PowerPlex® Fusion									
						11				
3sp										
7PYEGH	PowerPlex® Y 23									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
7Y768Z	PowerPlex® Y 23, GlobalFiler™									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18		22			
	11	12	19	19			23	10	12	2
7YMJB4	Yfiler® Plus									
	35,38	14	11,15	12	30	24	11	13	13	15
3sp	12	13	19	29	15	18	10	22		37
	11		19	19			19	23	12	2
82T7N9	PowerPlex® Fusion									
						11				
3sp										
87JHLP	Investigator® 24plex									
						11				
3sp										
89RLHM	GlobalFiler™									
						11				
3sp										
										2
8AJP63	Yfiler® Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
3sp	12	13	19	29	15	18	10	22		37
	11		19	19			19	23	12	2
8CMMBN	PowerPlex® Fusion 5C									
						11				
3sp										
8J6VWY	Yfiler®									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18					
								23		12
8K27VN	Yfiler®, PowerPlex® Fusion 5C									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18					
								23		12

TABLE 2

WebCode	Amplification Kit														
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437					
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518					
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel				
<b>Item 3sp - YSTR Results</b>															
8ZA8KH	PowerPlex® Y 23														
	14	11,15	12	30	24	11	13	13	15						
3sp	12	13	19	15	18		22								
	11	12	19	19			23	10	12						
9FKK28	PowerPlex® Fusion														
	11														
3sp															
9HARL4	Yfiler®, PowerPlex® Fusion														
	14	11,15	12	30	24	11	13	13	15						
3sp	12	13	19	15	18		23		12						
9JL9YH	PowerPlex® Y 23														
	14	11,15	12	30	24	11	13	13	15						
3sp	12	13	19	15	18		22								
	11	12	19	19			23	10	12						
9NXCQ6	Yfiler®, GlobalFiler™														
	14	11,15	12	30	24	11	13	13	15						
3sp	12	13	19	15	18		23		12	2					
9RFEU4	Yfiler®														
	N/A	14	11,15	12	30	24	11	13	13	15					
3sp	12	13	19	N/A	15	18	N/A	N/A	N/A	N/A					
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	N/A				
A3DUWD	PowerPlex® Fusion 6C														
	11														
3sp															
	19			19											
A4L7FZ	Yfiler® Plus														
	35,38	14	11,15	12	30	24	11	13	13	15					
3sp	12	13	19	29	15	18	10	22		37					
	11			19		19		19		23		12		2	
AQJFY3	GlobalFiler™														
	11														
3sp															
	2														
AQVERQ	Investigator® 24plex														
	11														
3sp															
ATKLCM	Investigator® 24plex														
	11														
3sp															
AVCFDX	Yfiler®, GlobalFiler™														
	14	11,15	12	30	24	11	13	13	15						
3sp	12	13	19	15	18		23		12	2					

TABLE 2

WebCode	Amplification Kit										
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437	
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	
Item	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel
<b>Item 3sp - YSTR Results</b>											
AVCKQL	Yfiler®, PowerPlex® Fusion										
	14	11,15	12	30	24	11	13	13	15		
3sp	12	13	19	15	18						
								23		12	
B2UDEQ	Investigator® 24plex										
								11			
3sp											
B382FG	PowerPlex® Fusion										
								11			
3sp											
B6X69N	PowerPlex® Y 23										
	14	11,15	12	30	24	11	13	13	15		
3sp	12	13	19	15	18			22			
	11	12	19	19				23	10	12	
B8G6HC	PowerPlex® Y 23										
	14	11,15	12	30	24	11	13	13	15		
3sp	12	13	19	15	18			22			
	11	12	19	19				23	10	12	
CA4WDF	PowerPlex® Fusion 5C										
								11			
3sp											
CDN9RC	PowerPlex® Fusion 6C										
								11			
3sp											
			19	19							
CN6WLB	Yfiler® Plus										
	35,38	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	29	15	18	10	22		37	
	11		19	19			19	23		12	2
CQW7Z	Yfiler®, PowerPlex® Fusion										
	14	11,15	12	30	24	11	13	13	15		
3sp	12	13	19	15	18						
								23		12	
CTW2FE	PowerPlex® Fusion										
								11			
3sp											
CVM2Z6	Yfiler®, PowerPlex® Fusion 5c										
	14	11,15	12	30	24	11	13	13	15		
3sp	12	13	19	15	18						
								23		12	
DA2VME	Yfiler®										
	14	11,15	12	30	24	11	13	13	15		
3sp	12	13	19	15	18						
								23		12	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel
<b>Item 3sp - YSTR Results</b>										
DQP2WT	Yfiler®									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18					
							23		12	
E2H3TU	Yfiler® Plus									
	35,38	14	11,15	12	30	24	11	13	13	15
3sp	12	13	19	29	15	18	10	22	37	
		11		19	19		19	23	12	2
E4NENA										
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18		22			
		11	12	19	19		23	10	12	
E8TXVH	Investigator® 24plex									
						11				
3sp										
ECZNXN	PowerPlex® Y 23									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18		22			
		11	12	19	20		23	10	12	
EMKVWD	PowerPlex® Fusion 5C									
						11				
3sp										
EQ3VEE	PowerPlex® Y Y23, PowerPlex® Fusion									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18		22			
		11	12	19	19		23	10	12	
EQJB3F	PowerPlex® Fusion 6C									
						11				
3sp										
			19	19						
ERFM8V	Yfiler®, GlobalFiler™									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18					
							23		12	2
ET8HRJ	Investigator® 24plex									
						11				
3sp										
EYCLEW	Yfiler®									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18					
							23		12	
EYYPAR	Yfiler®									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18					
							23		12	

TABLE 2

WebCode	Amplification Kit									
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

## Item 3sp - YSTR Results

FCKD6B	PowerPlex® Fusion 6C									
3sp	11									
	19 19									
FELPFG	Yfiler®, Investigator® 24plex QS									
3sp	12	13	19		15	18		23		12
	14	11,15	12	30	24	11	13	13	15	
FH4PXH	Yfiler® Plus									
3sp	12	13	19	29	15	18	10	22		37
	35,38	14	11,15	12	30	24	11	13	13	15
		11	19	19	19	19	23		12	2
G2TQ3K	PowerPlex® Fusion 5C									
3sp	11									
GD8HTE	PowerPlex® Fusion 5c									
3sp	11									
GH48B8	PowerPlex® Fusion 6C									
3sp	11									
	19 19									
GK4KR6	PowerPlex® Fusion									
3sp	11									
GNTPPJ	Yfiler® Plus, GlobalFiler™									
3sp	12	13	19	29	15	18	10	22		37
	35,38	14	11,15	12	30	24	11	13	13	15
		11	19	19	19	19	23		12	2
GPXC3M	Yfiler®									
3sp	12	13	19		15	18		23		12
	14	11,15	12	30	24	11	13	13	15	
GVNRPA	PowerPlex® Y 23									
3sp	12	13	19		15	18		22		15
	14	11,15	12	30	24	11	13	13	15	
	11	12	19	19			23	10	12	
GVT4EQ	PowerPlex® Fusion 5c									
3sp	11									
GWJ98X	PowerPlex® Fusion									
3sp	11									

TABLE 2

WebCode	Amplification Kit										
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437	
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	
Item	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel
<b>Item 3sp - YSTR Results</b>											
H2A47M	Yfiler®										
		14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19		15	18					
								23		12	
HGZ8LR	Yfiler®, PowerPlex® Fusion 6C										
		14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19		15	18					
				19	19			23		12	
HHVKDQ	PowerPlex® Fusion										
							11				
3sp											
HRMU69	PowerPlex® Fusion 6C										
	-	-	-	-	-	-	11	-	-	-	
3sp	-	-	-	-	-	-	-	-	-	-	
				19	19	-	-	-	-	-	-
J2NMPK	PowerPlex® Fusion 5C										
							11				
3sp											
J4ERJR	PowerPlex® Fusion 6C										
							11				
3sp											
				19	19						
J4V9DK	Yfiler®										
		14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19		15	18					
								23		12	
J67XPA	PowerPlex® Y 23										
		14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19		15	18		22			
		11	12	19	19			23	10	12	
J8ULYP	Yfiler®										
	-	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	-	15	18	-	-	-	-	
	-	-	-	-	-	-	-	23	-	12	-
J8W6A8	PowerPlex® Y 23										
		14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19		15	18		22			
		11	12	19	19			23	10	12	
JBWFWU	Yfiler®										
		14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19		15	18					
								23		12	2
JDKUL4	PowerPlex® Fusion Fusion 6C										
							11				
3sp											
				19	19						

TABLE 2

WebCode	Amplification Kit										
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437	
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel

## Item 3sp - YSTR Results

JFLZZA	PowerPlex® Fusion										
	11										
3sp											
JN3D4F	Yfiler® Plus										
	35,38	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	29	15	18	10	22		37	
		11		19	19		19	23		12	
KE7344	Yfiler® Plus										
	35,38	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	29	15	18	10	22		37	
		11		19	19		19	23		12	2
KH87VQ	Yfiler®, Investigator® 24plex QS										
	N/A	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	N/A	15	18	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	N/A
KKWCFM	Yfiler®										
		14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19		15	18					
								23		12	
KLVBVP	PowerPlex® Fusion 6C										
	11										
3sp											
				19	19						
LKQH82	PowerPlex® Fusion										
	11										
3sp											
LNXXN9	PowerPlex® Y 23, PowerPlex® Fusion 5c										
		14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19		15	18		22			
		11	12	19	19			23	10	12	
LT72UL	Yfiler®										
	-	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	-	15	18	-	-	-	-	
	-	-	-	-	-	-	-	23	-	12	-
LT8XZB	PowerPlex® Fusion 6C										
	11										
3sp											
				19	19						
LUHVDT	PowerPlex® Fusion										
	11										
3sp											
LYDP8N	Yfiler®										
	-	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	-	15	18	-	-	-	-	
	-	-	-	-	-	-	-	23	-	12	-



TABLE 2

WebCode	Amplification Kit										
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437	
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	
Item	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel

Item 3sp - YSTR Results

M8Y7FN	PowerPlex® Fusion										
3sp	11										
ML62W6	PowerPlex® Fusion										
3sp	11										
MNQ3GJ	PowerPlex® Y 23, GlobalFiler™										
3sp	14	11,15	12	30	24	11	13	13	15		
	12	13	19	15	18		22				
	11	12	19	19			23	10	12	2	
MXAMUN	Yfiler®, Investigator® 24plex QS										
3sp	N/A	14	11,15	12	30	24	11	13	13	15	
	12	13	19	N/A	15	18	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	N/A
NJ7KT8	PowerPlex® Fusion 6C										
3sp	11										
			19	19							
NURKRP	PowerPlex® Fusion 6C										
3sp	11										
											2
P96EEY	PowerPlex® Fusion 6C										
3sp	11										
			19	19							
PD2YK4	PowerPlex® Fusion										
3sp	11										
PPUKND	Yfiler® plus										
3sp	35,38	14	11,15	12	30	24	11	13	13	15	
	12	13	19	29	15	18	10	22		37	
		11		19	19		19	23		12	
PQ83T6	Yfiler®										
3sp	14	11,15	12	30	24	11	13	13	15		
	12	13	19	15	18						
								23		12	2
Q6MC9E	Yfiler®										
3sp	14	11,15	12	30	24	11	13	13	15		
	12	13	19	15	18						
								23		12	
Q934Z8	GlobalFiler™										
3sp	11										
											2

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel
<b>Item 3sp - YSTR Results</b>										
QFGX8W	PowerPlex® Y 23									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
QTT723	Yfiler®, GlobalFiler™									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18					
							23		12	2
QXKKKH	PowerPlex® Fusion 5C									
						11				
3sp										
R2EJQZ	PowerPlex® Fusion									
						11				
3sp										
RBMFAX	PowerPlex® Fusion									
						11				
3sp										
TCC2KZ	Yfiler® Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
3sp	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
										2
TCDUFM	PowerPlex® Fusion									
						11				
3sp										
TDTZXX	PowerPlex® Y Y23									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
TE3ZZJ	Yfiler®, PowerPlex® Fusion									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18					
							23		12	
TT32DK	Yfiler®									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18					
							23		12	2
TYPUKD	Yfiler®									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18					
							23		12	
TZ6T3G	Yfiler® PLUS, GlobalFiler™, PowerPlex® Fusion									
	35,38	14	11,15	12	30	24	11	13	13	15
3sp	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
										2

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	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 3sp - YSTR Results

U6Q97E	Yfiler®, PowerPlex® Fusion									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18					
							23		12	
UFCE2X	Investigator® 24plex									
						11				
3sp										
UFNB73	PowerPlex® Fusion 6C									
						11				
3sp				19	19					
UGZ2DL	PowerPlex® Fusion									
						11				
3sp										
V3JBBC	Yfiler®									
	-	14	11,15	12	30	24	11	13	13	15
3sp	12	13	19	-	15	18	-	-	-	-
	-	-	-	-	-	-	-	23	-	12
V7W9HY	PowerPlex® Fusion 5C									
						11				
3sp										
V8EY6	Yfiler® Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
3sp	12	13	19	29	15	18	10	22	37	
		11		19	19		19	23	12	2
V8TQFU	PowerPlex® Y 23									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
V9LE3W	PowerPlex® Y 23, PowerPlex® Fusion									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
VBWCHY	PowerPlex® Fusion 5C									
						11				
3sp										
VEQF26	Yfiler®, Investigator® 24plex QS									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18					
							23		12	
VGHA3F	Yfiler® Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
3sp	12	13	19	29	15	18	10	22	37	
		11		19	19		19	23	12	2

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

## Item 3sp - YSTR Results

VJ8GMC	PowerPlex® Y 23, GlobalFiler™									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18		22			
	11	12	19	19			23	10	12	2
VTUEDH	GlobalFiler™									
						11				
3sp										2
VUQ3NZ	PowerPlex® Fusion 6C									
						11				
3sp										
			19	19						
VWVMF8										
						11				
3sp										
VXBXEZ	Yfiler®, GlobalFiler™									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18					
							23		12	2
W7Z6CV	Yfiler®, GlobalFiler™									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18					
							23		12	2
W8B2UT	PowerPlex® Y 23									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
WDD2BB	PowerPlex® Y 23, GlobalFiler™									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18		22			
	11	12	19	19			23	10	12	2
WPUTYK	Yfiler®, PowerPlex® Fusion									
	14	11,15	12	30	24	11	13	13	15	
3sp	12	13	19	15	18					
							23		12	
WQJ4RX	PowerPlex® Fusion 6C									
						11				
3sp										
			19	19						
WWWPH	PowerPlex® Fusion									
						11				
3sp										
WYE2J8	PowerPlex® Fusion 5C									
						11				
3sp										

TABLE 2

WebCode	Amplification Kit										
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437	
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	
Item	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel

Item 3sp - YSTR Results

X3B89W	PowerPlex® Fusion 6C										
	3sp	11									
XATHMX	PowerPlex® Fusion 6C										
	3sp	11									
XEMBY2	Yfiler® plus										
	3sp	35,38	14	11,15	12	30	24	11	13	13	15
XL3CXB	Yfiler® Plus, GlobalFiler™										
	3sp	12	13	19	29	15	18	10	22	37	
XMJBC9	Yfiler®										
	3sp	12	13	19		15	18		23	12	
XNPY8P	PowerPlex® Y 23										
	3sp	12	13	19		15	18		22		
XREW8H	PowerPlex® Fusion										
	3sp	11									
XW4G9C	GlobalFiler™										
	3sp	11									
Y3NWEV	PowerPlex® Fusion										
	3sp	11									
Y7TP9T	PowerPlex® Fusion 5C										
	3sp	11									
YBLQA9	Yfiler®										
	3sp	12	13	19		15	18		23	12	
YBZDLV	Yfiler®, PowerPlex® Fusion										
	3sp	12	13	19		15	18		23	12	

TABLE 2

WebCode	Amplification Kit									
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 3sp - YSTR Results

YP2PJF	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
3sp	12	13	19		15	18				
								23		12 2
Z6T7JX	Yfiler® YFiler Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
3sp	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12 2
Z7K6UP	Investigator® 24plex									
							11			
3sp										
ZMWJGE	PowerPlex® Fusion									
							11			
3sp										
ZTV668	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
3sp	12	13	19		15	18				
								23		12

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

## Item 4 - YSTR Results

22NZHW	Yfiler® Plus									
	35,38	14	11,15	12	30	24	11	13	13	15
	4	12	13	19	29	15	18	10	22	37
		11		19	19		19	23		12
28V8JU	Yfiler®, PowerPlex® Fusion									
		14	11,15	12	30	24	11	13	13	15
	4	12	13	19		15	18			
								23		12
2EDUUQ	PowerPlex® Fusion									
							11			
4										
2M4F2A	Yfiler® Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
	4	12	13	19	29	15	18	10	22	37
		11		19	19		19	23		12
										2
2UPB3D	PowerPlex® Fusion									
							11			
4										
2Y22LM	PowerPlex® Fusion									
							11			
4										
33CTUQ	Yfiler®, PowerPlex® Fusion									
		14	11,15	12	30	24	11	13	13	15
	4	12	13	19		15	18			
								23		12
39NE3X	Yfiler® Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
	4	12	13	19	29	15	18	10	22	37
		11		19	19		19	23		12
										2
3CL2UZ	Yfiler® Plus, GlobalFiler™ Express									
	35,38	14	11,15	12	30	24	11	13	13	15
	4	12	13	19	29	15	18	10	22	37
		11		19	19		19	23		12
										2
3GD3ZL	PowerPlex® Fusion 6C									
							11			
4										
				19	19					
3RXPTM	PowerPlex® Y 23									
		14	11,15	12	30	24	11	13	13	15
	4	12	13	19		15	18		22	
		11	12	19	19		23	10		12
3VD6F9	Yfiler®, GlobalFiler™									
		14	11,15	12	30	24	11	13	13	15
	4	12	13	19		15	18			
								23		12
										2

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	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

## Item 4 - YSTR Results

3Z77E2	Yfiler®									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18					
							23		12	
47AEGM	PowerPlex® Fusion									
4						11				
49JEHN	PowerPlex® Fusion									
4						11				
4AD436	PowerPlex® Fusion									
4						11				
4ATR6	Yfiler®, PowerPlex® Fusion									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18					
							23		12	
4JGKA2	Yfiler®									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18					
							23		12	
4JZ77X	PowerPlex® Y 23									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
4W6D7N	PowerPlex® Y PPY23									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
4WP2KC	PowerPlex® Fusion									
4						11				
62WXJJ	PowerPlex® Y 23									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
6FWZVK	PowerPlex® Y 23									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
6T3YYP										
4						11				



TABLE 2

WebCode	Amplification Kit									
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

## Item 4 - YSTR Results

7BXXBG	PowerPlex® Fusion									
	11									
4										
7PYEGH	PowerPlex® Y 23									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
7Y768Z	PowerPlex® Y 23, GlobalFiler™									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18		22			
	11	12	19	19			23	10	12	2
7YMJB4	Yfiler® Plus									
	35,38	14	11,15	12	30	24	11	13	13	15
4	12	13	19	29	15	18	10	22		37
	11		19	19			19	23		12
										2
82T7N9	PowerPlex® Fusion									
	11									
4										
87JHLP	Investigator® 24plex									
	11									
4										
89RLHM	GlobalFiler™									
	11									
4										
	2									
8AJP63	Yfiler® Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
4	12	13	19	29	15	18	10	22		37
	11		19	19			19	23		12
										2
8CMMBN	PowerPlex® Fusion 5C									
	11									
4										
8J6VWY	Yfiler®									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18					
							23		12	
8K27VN	Yfiler®, PowerPlex® Fusion 5C									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18					
							23		12	
8ZA8KH	PowerPlex® Y 23									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18		22			
	11	12	19	19			23	10	12	

TABLE 2

WebCode	Amplification Kit										
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437	
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel	
<b>Item 4 - YSTR Results</b>											
9FKK28	PowerPlex® Fusion										
4	11										
9HARL4	Yfiler®, PowerPlex® Fusion										
4	14	11,15	12	30	24	11	13	13	15		
4	12	13	19	15	18						
							23		12		
9JL9YH	PowerPlex® Y 23										
4	14	11,15	12	30	24	11	13	13	15		
4	12	13	19	15	18		22				
		11	12	19	19		23	10	12		
9NXCQ6	Yfiler®, GlobalFiler™										
4	14	11,15	12	30	24	11	13	13	15		
4	12	13	19	15	18						
							23		12	2	
9RFEU4	Yfiler®										
4	N/A	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	N/A	15	18	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	N/A
9U2H22	Yfiler®										
4	14	11,15	12	30	24	11	13	13	15		
4	12	13	19	15	18						
							23		12		
A3DUWD	PowerPlex® Fusion 6C										
4	11										
			19	19							
A4L7FZ	Yfiler® Plus										
4	35,38	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	29	15	18	10	22		37	
		11		19	19		19	23		12	2
AQJFY3	GlobalFiler™										
4	11										
										2	
AQVERQ	Investigator® 24plex										
4	11										
ATKLCM	Investigator® 24plex										
4	11										
AVCFDX	Yfiler®, GlobalFiler™										
4	14	11,15	12	30	24	11	13	13	15		
4	12	13	19	15	18						
							23		12	2	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel
<b>Item 4 - YSTR Results</b>										
AVCKQL	Yfiler®, PowerPlex® Fusion									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18					
							23		12	
B2UDEQ	Investigator® 24plex									
						11				
4										
B382FG	PowerPlex® Fusion									
						11				
4										
B6X69N	PowerPlex® Y 23									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
B8G6HC	PowerPlex® Y 23									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
CA4WDF	PowerPlex® Fusion 5C									
						11				
4										
CDN9RC	PowerPlex® Fusion 6C									
						11				
4										
			19	19						
CN6WLB	Yfiler® Plus									
	35,38	14	11,15	12	30	24	11	13	13	15
4	12	13	19	29	15	18	10	22		37
	11		19	19			19	23		12
										2
CQW7Z	Yfiler®, PowerPlex® Fusion									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18					
							23		12	
CTW2FE	PowerPlex® Fusion									
						11				
4										
CVM2Z6	Yfiler®, PowerPlex® Fusion 5c									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18					
							23		12	
DA2VME	Yfiler®									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18					
							23		12	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
	Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505
DYS522										
DYS533										
DYS549										
DYS570										
DYS576										
DYS612										
DYS627										
DYS635										
DYS643 YGATAH4 Y Indel										
<b>Item 4 - YSTR Results</b>										
DQP2WT	Yfiler®									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18					
							23		12	
E2H3TU	Yfiler® Plus									
	35,38	14	11,15	12	30	24	11	13	13	15
4	12	13	19	29	15	18	10	22	37	
		11		19	19		19	23	12	2
E4NENA										
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
E8TXVH	Investigator® 24plex									
						11				
4										
ECZNXN	PowerPlex® Y 23									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18		22			
	11	12	19	20			23	10	12	
EDJBUK	Yfiler®									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18					
							23		12	
EMKVWD	PowerPlex® Fusion 5C									
						11				
4										
EQ3VEE	PowerPlex® Y Y23									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
EQJB3F	PowerPlex® Fusion 6C									
						11				
4										
			19	19						
ERFM8V	Yfiler®, GlobalFiler™									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18					
							23		12	2
ET8HRJ	Investigator® 24plex									
						11				
4										
EYCLEW	Yfiler®									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18					
							23		12	

TABLE 2

WebCode	Amplification Kit									
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

## Item 4 - YSTR Results

EYYPAR	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
4	12	13	19		15	18				
								23		12
FCKD6B	PowerPlex® Fusion 6C									
							11			
4										
			19	19						
FELPFG	Yfiler®, Investigator® 24plex QS									
		14	11,15	12	30	24	11	13	13	15
4	12	13	19		15	18				
								23		12
FH4PXH	Yfiler® Plus									
	35,38	14	11,15	12	30	24	11	13	13	15
4	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
										2
G2TQ3K	PowerPlex® Fusion 5C									
							11			
4										
GD8HTE	PowerPlex® Fusion 5C									
							11			
4										
GH48B8	PowerPlex® Fusion 6C									
							11			
4										
			19	19						
GK4KR6	PowerPlex® Fusion									
							11			
4										
GNTPPJ	Yfiler® Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
4	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
										2
GPXC3M	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
4	12	13	19		15	18				
								23		12
GVRPA	PowerPlex® Y 23									
		14	11,15	12	30	24	11	13	13	15
4	12	13	19		15	18		22		
		11	12	19	19			23	10	12
GVT4EQ	PowerPlex® Fusion 5c									
							11			
4										

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	DYS505	DYS518	
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel

Item 4 - YSTR Results

GWJ98X	PowerPlex® Fusion										
	4	11									
H2A47M	Yfiler®	14	11,15	12	30	24	11	13	13	15	
	4	12	13	19	15	18		23		12	
HGZ8LR	Yfiler®, PowerPlex® Fusion 6C	14	11,15	12	30	24	11	13	13	15	
	4	12	13	19	15	18		23		12	
HHVKDQ	PowerPlex® Fusion										
	4	11									
HRMU69	PowerPlex® Fusion 6C	-	-	-	-	-	11	-	-	-	
	4	-	-	-	-	-	-	-	-	-	-
J2NMPK	PowerPlex® Fusion 5C			19	19	-	-	-	-	-	-
	4	11									
J4ERJR	PowerPlex® Fusion 6C										
	4	11									
J4V9DK	Yfiler®	14	11,15	12	30	24	11	13	13	15	
	4	12	13	19	15	18		23		12	
J67XPA	PowerPlex® Fusion										
	4	11									
J8ULYP	Yfiler®	-	14	11,15	12	30	24	11	13	13	15
	4	12	13	19	-	15	18	-	-	-	-
J8W6A8	PowerPlex® Y 23	14	11,15	12	30	24	11	13	13	15	
	4	12	13	19	15	18		22			
JBWFWU	Yfiler®	14	11,15	12	30	24	11	13	13	15	
	4	12	13	19	15	18		23		12	2

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	DYS505	DYS518	
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel

Item 4 - YSTR Results

JDKUL4	PowerPlex® Fusion Fusion 6C										
4	11										
	19 19										
JFLZZA	PowerPlex® Fusion										
4	11										
JN3D4F	Yfiler® Plus										
4	35,38	14	11,15	12	30	24	11	13	13	15	
	12	13	19	29	15	18	10	22		37	
		11		19	19		19	23		12	
JU93KM	GlobalFiler™										
4	11										
	2										
JXR4NM	PowerPlex® Fusion 6C										
4	11										
	19 19										
KE7344	Yfiler® Plus										
4	35,38	14	11,15	12	30	24	11	13	13	15	
	12	13	19	29	15	18	10	22		37	
		11		19	19		19	23		12	2
KH87VQ	Yfiler®, Investigator® 24plex QS										
4	N/A	14	11,15	12	30	24	11	13	13	15	
	12	13	19	N/A	15	18	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	N/A
KKWCFM	Yfiler®										
4		14	11,15	12	30	24	11	13	13	15	
	12	13	19		15	18					
								23		12	
KLVBVP	PowerPlex® Fusion 6C										
4	11										
	19 19										
LKQH82	PowerPlex® Fusion										
4	11										
LNXNX9	PowerPlex® Fusion 5c										
4	11										
LT72UL	Yfiler®										
4	-	14	11,15	12	30	24	11	13	13	15	
	12	13	19	-	15	18	-	-	-	-	
	-	-	-	-	-	-	-	23	-	12	-

TABLE 2

WebCode	Amplification Kit										
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437	
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel

Item 4 - YSTR Results

LT8XZB	PowerPlex® Fusion 6C										
4	11										
	19 19										
LUHVDT	PowerPlex® Fusion										
4	11										
LYDP8N	Yfiler®										
4	-	14	11,15	12	30	24	11	13	13	15	
	12	13	19	-	15	18	-	-	-	-	
	-	-	-	-	-	-	-	23	-	12	-
M8Y7FN	PowerPlex® Fusion										
4	11										
ML62W6	PowerPlex® Fusion										
4	11										
MNQ3GJ	PowerPlex® Y 23, GlobalFiler™										
4	14	11,15	12	30	24	11	13	13	15		
	12	13	19		15	18		22			
	11	12	19	19				23	10	12	2
MTGH2K	Yfiler®										
4	14	11,15	12	30	24	11	13	13	15		
	12	13	19	15	18						
								23		12	
MXAMUN	Yfiler®, ForenSeq™, Investigator® 24plex QS										
4	N/A	14	11,15	12	30	24	11	13	13	15	
	12	13	19	N/A	15	18	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	N/A
NJ7KT8	PowerPlex® Fusion 6C										
4	11										
	19 19										
NURKRP	PowerPlex® Fusion										
4	11										
	2										
P96EEY	PowerPlex® Fusion 6C										
4	11										
	19 19										
PD2YK4	PowerPlex® Fusion										
4	11										



TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

## Item 4 - YSTR Results

PPUKND	Yfiler® plus									
	35,38	14	11,15	12	30	24	11	13	13	15
	4	12	13	19	29	15	18	10	22	37
		11		19	19		19	23		12
PQ83T6	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
	4	12	13	19		15	18			
								23		12
										2
Q6MC9E	Yfiler®									
		14	11,15	12	30	24	11	13	13	15
	4	12	13	19		15	18			
								23		12
Q934Z8	GlobalFiler™									
							11			
	4									
										2
QFGX8W	PowerPlex® Y 23									
		14	11,15	12	30	24	11	13	13	15
	4	12	13	19		15	18		22	
		11	12	19	19			23	10	12
QTT723	Yfiler®, GlobalFiler™									
		14	11,15	12	30	24	11	13	13	15
	4	12	13	19		15	18			
								23		12
										2
QXKKKH	PowerPlex® Fusion 5C									
							11			
	4									
R2EJQZ	PowerPlex® Fusion									
							11			
	4									
RBMFAX	PowerPlex® Fusion									
							11			
	4									
TCC2KZ	Yfiler® Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
	4	12	13	19	29	15	18	10	22	37
		11		19	19		19	23		12
										2
TCDUFM	PowerPlex® Fusion									
							11			
	4									
TDTZXX	PowerPlex® Y Y23									
		14	11,15	12	30	24	11	13	13	15
	4	12	13	19		15	18		22	
		11	12	19	19			23	10	12

TABLE 2

WebCode	Amplification Kit										
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437	
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	
Item	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel
<b>Item 4 - YSTR Results</b>											
TE3ZZJ	Yfiler®, PowerPlex® Fusion										
		14	11,15	12	30	24	11	13	13	15	
4	12	13	19		15	18					
								23		12	
TT32DK	Yfiler®										
		14	11,15	12	30	24	11	13	13	15	
4	12	13	19		15	18					
								23		12	2
TYPUKD	Yfiler®										
		14	11,15	12	30	24	11	13	13	15	
4	12	13	19		15	18					
								23		12	
TZ6T3G	Yfiler® PLUS										
	35,38	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	29	15	18	10	22		37	
		11		19	19		19	23		12	2
U6Q97E	Yfiler®, PowerPlex® Fusion										
		14	11,15	12	30	24	11	13	13	15	
4	12	13	19		15	18					
								23		12	
UFCE2X	Investigator® 24plex										
							11				
4											
UFNB73	PowerPlex® Fusion 6C										
							11				
4											
				19	19						
UGZ2DL	PowerPlex® Fusion										
							11				
4											
V3JBBC	Yfiler®										
	-	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	-	15	18	-	-	-	-	
	-	-	-	-	-	-	-	23	-	12	-
V7W9HY	PowerPlex® Fusion 5C										
							11				
4											
V8EYT6	Yfiler® Plus, GlobalFiler™										
	35,38	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	29	15	18	10	22		37	
		11		19	19		19	23		12	2
V8TQFU	PowerPlex® Y 23										
		14	11,15	12	30	24	11	13	13	15	
4	12	13	19		15	18		22			
		11	12	19	19			23	10	12	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel
<b>Item 4 - YSTR Results</b>										
V9LE3W	PowerPlex® Y 23									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
VBWCHY	PowerPlex® Fusion 5C									
						11				
4										
VEQF26	Yfiler®, Investigator® 24plex QS									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18					
							23		12	
VGHA3F	Yfiler® Plus, GlobalFiler™									
	35,38	14	11,15	12	30	24	11	13	13	15
4	12	13	19	29	15	18	10	22	37	
	11		19	19			19	23	12	2
VJ8GMC	GlobalFiler™									
						11				
4										2
VTUEDH	GlobalFiler™									
						11				
4										2
VUQ3NZ	PowerPlex® Fusion 6C									
						11				
4										
			19	19						
VWVMF8	GlobalFiler™									
						11				
4										
VXBEZ	Yfiler®, GlobalFiler™									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18					
							23		12	2
W7Z6CV	Yfiler®, GlobalFiler™									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18					
							23		12	2
W8B2UT	PowerPlex® Y 23									
	14	11,15	12	30	24	11	13	13	15	
4	12	13	19	15	18		22			
	11	12	19	19			23	10	12	
WDD2BB	GlobalFiler™									
						11				
4										
										2

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	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 4 - YSTR Results

WPUTYK	Yfiler®, PowerPlex® Fusion									
4	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18					
								23		12
WQJ4RX	PowerPlex® Fusion 6C									
4						11				
			19	19						
WWWPH	PowerPlex® Fusion									
4						11				
WYE2J8	PowerPlex® Fusion 5C									
4						11				
X3B89W	PowerPlex® Fusion 6C									
4						11				
			19	19						
XATHMX	PowerPlex® Fusion 6C									
4						11				
			19	19						
XEMBY2	Yfiler® plus									
4	35,38	14	11,15	12	30	24	11	13	13	15
	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
										2
XL3CXB	Yfiler® Plus, GlobalFiler™									
4	35,38	14	11,15	12	30	24	11	13	13	15
	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
										2
XMJBC9	Yfiler®									
4	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18					
								23		12
XNPY8P	PowerPlex® Y 23									
4	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18		22			
		11	12	19	19		23	10	12	
XREW8H	PowerPlex® Fusion									
4						11				
XW4G9C	GlobalFiler™									
4						11				

TABLE 2

WebCode	Amplification Kit									
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 4 - YSTR Results

Y3NWEV	PowerPlex® Fusion									
4	11									
Y7TP9T	PowerPlex® Fusion 5C									
4	11									
YBLQA9	Yfiler®									
4	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18					
							23		12	
YBZDLV	Yfiler®, PowerPlex® Fusion									
4	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18					
							23		12	
YP2PJF	Yfiler®									
4	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18					
							23		12	2
Z6T7JX	Yfiler® YFiler Plus, GlobalFiler™									
4	35,38	14	11,15	12	30	24	11	13	13	15
	12	13	19	29	15	18	10	22		37
		11		19	19		19	23		12
										2
Z7K6UP	Investigator® 24plex									
4	11									
ZMWJGE	PowerPlex® Fusion									
4	11									
ZTV668	Yfiler®									
4	14	11,15	12	30	24	11	13	13	15	
	12	13	19	15	18					
							23		12	

TABLE 2

WebCode	Amplification Kit																														
Item	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel

Item 4e - YSTR Results

6VPM94	Yfiler®, PowerPlex® Fusion 5C																															
		14	11,15	12		30	24	11	13	13	15																					
4e	12	13	19			15	18																									
										23																						

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	DYS505	DYS518
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4 Y Indel

Item 4sp - YSTR Results

6VPM94	Yfiler®, PowerPlex® Fusion 5C									
	14	11,15	NR	30	24	11	13	13	15	
4sp	NR	13	NR	15	NR					
							23		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
DYS391	V8TQFU	Negative							



# DNA Interpretations

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

TABLE 4

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
22NZHW	Yes	No	Yes	Yes	6FWZVK	Yes	No	Yes	Yes
28V8JU	Yes	No	Yes	Yes	6T3YYP	Yes	No	Yes	Yes
2EDUUQ	Yes	No	Yes	Yes	6TGEYJ	Yes	No	Yes	Yes
2M4F2A	Yes	No	Yes	Yes	6VPM94	Yes	No	Yes	Yes
2UPB3D	Yes	No	Yes	Yes	7BXXBG	Yes	No	Yes	Yes
2Y22LM	Yes	No	Yes	Yes	7PYEGH	Yes	No	Yes	Yes
33CTUQ	Yes	No	Yes	Yes	7Y768Z	Yes	No	Yes	Yes
39NE3X	Yes	No	Yes	Yes	7YMJB4	Yes	No	Yes	Yes
3CL2UZ	Yes	No	Yes	Yes	82T7N9	Yes	No	Yes	Yes
3GD3ZL	Yes	No	Yes	Yes	87JHLP	Yes	No	Yes	Yes
3RXPTM	Yes	No	Yes	Yes	89RLHM	Yes	No	Yes	Yes
3VD6F9	Yes	No	Yes	Yes	8AJP63	Yes	No	Yes	Yes
3XZTPM	Yes	No	Yes	Yes	8CMMBN	Yes	No	Yes	Yes
3Z77E2	Yes	No	Yes	Yes	8J6VWY	Yes	No	Yes	Yes
47AEGM	Yes	No	Yes	Yes	8K27VN	Yes	No	Yes	Yes
49JEHN	Yes	No	Yes	Yes	8ZA8KH	Yes	No	Yes	Yes
4AD436	Yes	No	Yes	Yes	97EKLE	Yes	No	Yes	Yes
4ATRX6	Yes	No	Yes	Yes	9FKK28	Yes	No	Yes	Yes
4JGKA2	Yes	No	Yes	Yes	9HARL4	Yes	No	Yes	Yes
4JZ77X	Yes	No	Yes	Yes	9JL9YH	Yes	No	Yes	Yes
4W6D7N	Yes	No	Yes	Yes	9NXCQ6	Yes	No	Yes	Yes
4WP2KC	Yes	No	Yes	Yes	9RFEU4	Yes	No	Yes	Yes
62WXJJ	Yes	No	Yes	Yes	9U2H22	Yes	No	Yes	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
A3DUWD	Yes	No	Yes	Yes	E4NENA	Yes	No	Yes	Yes
A4L7FZ	Yes	No	Yes	Yes	E8TXVH	Yes	No	Yes	Yes
A7ETFJ	No Interpretations Reported, DNA Analyzed for Database purposes only.				ECZNXN	Yes	No	Yes	Yes
AQJFY3	Yes	No	Yes	Yes	EDJBK	Yes	No	Yes	Yes
AQVERQ	Yes	No	Yes	Yes	EMKVWD	Yes	No	Yes	Yes
ATKLCM	Yes	No	Yes	Yes	EQ3VEE	Yes	No	Yes	Yes
AVCFDX	Yes	No	Yes	Yes	EQJB3F	Yes	No	Yes	Yes
AVCKQL	Yes	No	Yes	Yes	ERFM8V	Yes	No	Yes	Yes
B2UDEQ	Yes	No	Yes	Yes	ET8HRJ	Yes	No	Yes	Yes
B382FG	Yes	No	Yes	Yes	EYCLEW	Yes	No	Yes	Yes
B6X69N	Yes	No	Yes	Yes	EYYPAR	Yes	No	Yes	Yes
B8G6HC	Yes	No	Yes	Yes	FCKD6B	Yes	No	Yes	Yes
CA4WDF	Yes	No	Yes	Yes	FELPFG	Yes	No	Yes	Yes
CDN9RC	Yes	No	Yes	Yes	FH4PXH	Yes	No	Yes	Yes
CN6WLB	Yes	No	Yes	Yes	G2TQ3K	Yes	No	Yes	Yes
CPXT6C	Yes	No	Yes	Yes	GD8HTE	Yes	No	Yes	Yes
CQVW7Z	Yes	No	Yes	Yes	GH48B8	Yes	No	Yes	Yes
CTW2FE	Yes	No	Yes	Yes	GK4KR6	Yes	No	Yes	Yes
CVM2Z6	Yes	No	Yes	Yes	GNTPPJ	Yes	No	Yes	Yes
DA2VME	Yes	No	Yes	Yes	GPXC3M	Yes	No	Yes	Yes
DMRBZF	Yes	No	Yes	Yes	GVNRPA	Yes	No	Yes	Yes
DQP2WT	Yes	No	Yes	Yes	GVT4EQ	Yes	No	Yes	Yes
DV4R9F	No Interpretations Reported, DNA Analyzed for Database purposes only.				GWJ98X	Yes	No	Yes	Yes
E2H3TU	Yes	No	Yes	Yes	H2A47M	Yes	No	Yes	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
HGZ8LR	Yes	No	Yes	Yes	LYDP8N	Yes	No	Yes	Yes
HHVKDQ	Yes	No	Yes	Yes	M2D9V8	No Interpretations Reported, DNA Analyzed for Database purposes only.			
HRMU69	Yes	No	Yes	Yes	M8Y7FN	Yes	No	Yes	Yes
J2NMPK	Yes	No	Yes	Yes	ML62W6	Yes	No	Yes	Yes
J4ERJR	Yes	No	Yes	Yes	MNQ3GJ	Yes	No	Yes	Yes
J4V9DK	Yes	No	Yes	Yes	MTGH2K	Yes		Yes	Yes
J67XPA	Yes	No	Yes	Yes	MXAMUN	Yes	No	Yes	Yes
J8ULYP	Yes	No	Yes	Yes	NJ7KT8	Yes	No	Yes	Yes
J8W6A8	Yes	No	Yes	Yes	NURKRP	Yes	No	Yes	Yes
JBWFWU	Yes	No	Yes	Yes	P96EEY	Yes	No	Yes	Yes
JDKUL4	Yes	No	Yes	Yes	PD2YK4	Yes	No	Yes	Yes
JFLZZA	Yes	No	Yes	Yes	PPUKND	Yes	No	Yes	Yes
JN3D4F	Yes	No	Yes	Yes	PQ83T6	Yes	No	Yes	Yes
JU93KM	Yes	No	Yes	Yes	Q23RVX	Yes	No	Yes	Yes
JXR4NM	Yes	No	Yes	Yes	Q498BG	Yes	No	Yes	Yes
KE7344	Yes	No	Yes	Yes	Q6MC9E	Yes	No	Yes	Yes
KH87VQ	Yes	No	Yes	Yes	Q934Z8	Yes	No	Yes	Yes
KKWCFM	Yes	No	Yes	Yes	QFGX8W	Yes	No	Yes	Yes
KLVBVP	Yes	No	Yes	Yes	QTT723	Yes	No	Yes	Yes
LKQH82	Yes	No	Yes	Yes	QXKKKH	Yes	No	Yes	Yes
LNXXN9	Yes	No	Yes	Yes	R2EJQZ	Yes	No	Yes	Yes
LT72UL	Yes	No	Yes	Yes	RBMFAX	Yes	No	Yes	Yes
LT8XZB	Yes	No	Yes	Yes	TCC2KZ	Yes	No	Yes	Yes
LUHVDT	Yes	No	Yes	Yes	TCDUFM	Yes	No	Yes	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
TDTZXX	Yes	No	Yes	Yes	W7Z6CV	Yes	No	Yes	Yes
TE3ZZJ	Yes	No	Yes	Yes	W8B2UT	Yes	No	Yes	Yes
TT32DK	Yes	No	Yes	Yes	WDD2BB	Yes	No	Yes	Yes
TYPUKD	Yes	No	Yes	Yes	WPUTYK	Yes	No	Yes	Yes
TZ6T3G	Yes	No	Yes	Yes	WQJ4RX	Yes	No	Yes	Yes
U6Q97E	Yes	No	Yes	Yes	WWWWPH	Yes	No	Yes	Yes
UFCE2X	Yes	No	Yes	Yes	WYE2J8	Yes	No	Yes	Yes
UFNB73	Yes	No	Yes	Yes	X3B89W	Yes	No	Yes	Yes
UGZ2DL	Yes	No	Yes	Yes	XATHMX	Yes	No	Yes	Yes
ULH79A	No	No	Yes	Yes	XEMBY2	Yes	No	Yes	Yes
V3JBBC	Yes	No	Yes	Yes	XL3CXB	Yes	No	Yes	Yes
V7W9HY	Yes	No	Yes	Yes	XMJBC9	Yes	No	Yes	Yes
V8EYT6	Yes	No	Yes	Yes	XNPY8P	Yes	No	Yes	Yes
V8TQFU	Yes	No	Yes	Yes	XREW8H	Yes	No	Yes	Yes
V9LE3W	Yes	No	Yes	Yes	XW4G9C	Yes	No	Yes	Yes
VBWCHY	Yes	No	Yes	Yes	Y3NWEV	Yes	No	Yes	Yes
VEQF26	Yes	No	Yes	Yes	Y4KCN7	Yes	No	Yes	Yes
VGHA3F	Yes	No	Yes	Yes	Y7TP9T	Yes	No	Yes	Yes
VJ8GMC	Yes	No	Yes	Yes	Y9EMKQ	Yes	No	Yes	Yes
VNHVPA	Yes	No	Yes	Yes	YBLQA9	Yes	No	Yes	Yes
VTUEDH	Yes	No	Yes	Yes	YBZDLV	Yes	No	Yes	Yes
VUQ3NZ	Yes	No	Yes	Yes	YP2PJF	Yes	No	Yes	Yes
VWVMF8	Yes	No	Yes	Yes	Z6T7JX	Yes	No	Yes	Yes
VXBXEZ	Yes	No	Yes	Yes	Z7K6UP	Yes	No	Yes	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
ZFRVLR	No Interpretations Reported, DNA Analyzed for Database purposes only.								
ZMDNXR	Yes	No	Yes	Yes					
ZMWJGE	Yes	No	Yes	Yes					
ZTV668	Yes	No	Yes	Yes					

<b>DNA Interpretation</b>					
<b>Response Summary</b>			<b>Participants reporting DNA results: 194</b>		
<i>Based on results obtained from DNA analysis, could the Victim (Item 1) and/or the Suspect (Item 2) be a contributor to the questioned stains (Items 3 &amp; 4)?</i>					
		Victim (Item 1)		Suspect (Item 2)	
		<u>Item 3</u>	<u>Item 4</u>	<u>Item 3</u>	<u>Item 4</u>
Yes		<b>189</b>	<b>0</b>	<b>190</b>	<b>190</b>
No		<b>1</b>	<b>189</b>	<b>0</b>	<b>0</b>
Inc		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
No Interpretation		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
No Response		<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>

Participants analyzing DNA for database purposes only: 4

# Additional Comments

TABLE 5

WebCode	Additional Comments
22NZHW	The minor allele 32.2 at D21S11 and the minor allele 14 at D19S433 in item 3 sperm cell fraction are between the laboratory's analytical threshold of 100 RFU and the stochastic threshold of 200 RFU. The entire stain from item 3 was consumed during testing.
28V8JU	NR = No Results
2M4F2A	No Y-STR DNA analysis performed on item 1. N/A = not applicable. NR = no results.
33CTUQ	NR indicates No Results
39NE3X	DYS391 - obtained concordant results in Globalfiler and Yfiler Plus for items 3 and 4. DYS391 - obtained concordant results in Globalfiler Express and Yfiler Plus for item 2. Item 1 was not analyzed with Yfiler Plus.
3CL2UZ	Participant's note concerning boxes: Empty box indicates that no experiment was performed on that marker, and "NA" indicates that the experimented marker showed no alleles due to sex.
3VD6F9	Y-STR results was not performed on Item 1 because no male DNA was detected using Quantifiler Trio. The GlobalFiler results for Yindel and DYS391 are recorded in the YFiler results table for items 2, 3, and 4.
47AEGM	Maxwell extraction: Items 1,2,4. Organic extraction: Item 3.
4ATRX6	NR = No Results. Allele 10 at D3S1358 called potential artifact in Item 3F and Item 1. This artifact is not documented in the BFS manuals or STRbase. However, it has been observed and called a potential artifact in various casework samples with high quantities of DNA present.
62WXJJ	Very interesting Test and good quality of the samples
6FWZVK	Interesting Test and it was solved without problems.
6VPM94	NR-no results; Autosomal STR conclusion for Item 4 based on epithelial fraction
7PYEGH	I found it very good to participate in this test. The test I found interesting, maybe later it would be good to analyze a more complex mix.
87JHLP	Spermatozoa observed by microscopic examination of sample 3 differential slide
8K27VN	NR = No Results
9NXCQ6	For Items 2 and 4, and the sperm cell fraction of Item 3: both GF and YF were performed and at DYS391 the results were consistent between the two amplification kits (both had an allele 11).
9RFEU4	Elevated stutter were observed in Item #2, at, D21S11 (Identifier) and in Item #3 D21S11 (Identifier). Elevated stutter were observed in Item#4 at D5S818 (Identifier).
A7ETFJ	GlobalFiler testing was performed on the known samples, Items 1 and 2, for databasing only. YFiler testing was performed on the known sample, Item 2, for databasing only. For DYS391: the YFiler and GlobalFiler data results were concordant. Y-STR data for Item 2 also includes GlobalFiler results for the Y Indel.
AQVERQ	Spermatozoa were observed upon examination in sample 9.3 male fraction.
ATKLCM	Spermatozoa were observed by microscopic examination in the sperm cell fraction of item 3.
AVCFDX	Y-STR analysis was not performed on Item 1 because no male DNA was detected using Quantifiler Trio. The GlobalFiler results for Yindel and DYS391 are recorded in the Yfiler results table for items 2, 3, and 4.
AVCKQL	NR = No results
B2UDEQ	Spermatozoa were detected upon microscopic examination of sample 3 male fraction.
CQVW7Z	For Item 3 (epithelial fraction), no results were obtained at DYS391 using the PowerPlex Fusion kit.

TABLE 5

WebCode	Additional Comments
CTW2FE	Minor alleles reported in Ex 3F1 are consistent with carryover from 3F2.
DV4R9F	Item 2 results for DYS391 were obtained with both the Globalfiler and Yfiler kits and were shown to be concordant. Yindel was obtained from using the Globalfiler kit and is recorded on page 3 [Table 1 - STR Amplification Kit(s) & Results] along with the Yfiler results.
E2H3TU	Yindel results on Y-STR section are from GlobalFiler kit.
E8TXVH	Spermatozoa were detected upon microscopic examination of sample 3 male fraction
ECZNXN	1. Item #3 was extracted using differential method, followed by QIAamp DNA Micro Kit. 2. Item #1, #2, and #4 were extracted using QIAamp DNA Micro Kit extraction method. 3. Extracted DNA was quantified using Quantifiler Human DNA Quantification Kit through 7500 Real Time PCR. 4. Multiplex PCR amplification was performed on all extracted samples using PowerPlex Fusion Systems. 5. Y-STR analysis was performed on item #2, item #3, and item #4 using PowerPlex Y23 Systems. 6. Capillary electrophoresis was carried out through ABI 3130xl Genetic Analyzer (Applied Biosystems). 7. Genotype analysis was performed using GeneMapper ID v3.2.1 software (Applied Biosystems)
ERFM8V	Y-STR analysis was not performed on Item 1 because no male DNA was detected using Quantifiler Trio. The Globalfiler results for Yindel, and DYS391 are recorded in the YFiler results table for Items 2, 3, and 4.
ET8HRJ	Spermatozoa were detected on a slide prepared from item 3, sperm cell fraction.
FCKD6B	[From Table 2 - YSTR Amplification Kit(s) & Results, Item 1: "ND = No DNA detected."]
FELPFG	The test was performed using the Investigator 24plex QS kit and the Yfiler kit, which have an overlapping Y-STR locus: DYS391. The results obtained using the Yfiler kit are reported. For each sample, the results for DYS391 obtained using the Investigator 24plex QS kit were the same as those obtained using the Yfiler kit. Yfiler testing was performed on item 1; no alleles were observed. Spermatozoa were observed in the sperm cell fraction if item 3.
G2TQ3K	This proficiency test taker only performed DNA analysis, interpretation, statistical analysis, and report writing for this test. Extraction, quantification, amplification, and CE separation were performed by another qualified analyst. D18S51 for Item 3 sp: detected allele 15, possible +/-8 stutter combination. Per policy, cannot mark off.
GNTPPJ	DYS391 in samples 2, 3, and 4 were concordant in both GF(E) and YFP
HRMU69	*Possible elevated stutter was noted in the epithelial fraction of Item #3 at the D16S539 locus (allele 12) and the D2S1338 locus (allele 22); these were foreign to the victim and suspect. ^ Dropout was noted in Item #1 at locus D12S391 and in Item #2 at locus D5S818. ND = no DNA detected.
J67XPA	Exhibit 3 (non-sperm fraction) was only amplified in Fusion (not Y23) but there was no way to separate the non-sperm and sperm results on this form. The sperm fraction of Exhibit 3 was amplified in Y23. There was a minor male type detected at DYS391 (carryover) in the non-sperm fraction of Exhibit 3 which was reported as an [1 1] on this test.
J8ULYP	(i) chelex extraction method were used for Item 1, Item 2, Item 3 and Item 4. (ii) Human DNA Quantifier Kit on Real Time PCR 7500 System were used for quantification. (iii) Identifier Plus and Y-Filer were used for amplification. (iv) Electrophoresis were carried out on Genetic Analyzer 3130xl. (v) Reagent Blank, Positive Control and Negative Control were carried out along through analysis.
JBWFWU	No male DNA was detected for Item 1 using Plexor HY.
JXR4NM	Item 3 = two person mixture victim + suspect. item 1 (victim) = minor contributor. item 2 (suspect) = major contributor. LR calculated by LRmixStudio. LR(d.o.= 0.1)= hp(item 1 + item 2) vs hd(2 unk)= 2,06270E039. Item 4 = single source RMP = 7,907854E+037 Match with Item 2 (Suspect).
KH87VQ	Elevated Stutters were seen on Item 3e using Identifier. Item 3e is being reported considering Identifier and 24plex QS results.
KKWC FM	Multiplex PCR amplifications were performed on the Organic @ Phenol/Chloroform (Item 1, Item 2, Item

TABLE 5

WebCode	Additional Comments
	3 and Item 4) extracted DNA samples using the Applied Biosystems AmpFiSTR® Identifiler® Plus (STR) and Yfiler® (YSTR) amplification kits. Separation and detection of the amplified products were carried out using the Applied Biosystems 3130xl Genetic Analyzer and the data was analyzed by GeneMapper® ID v3.2.1 software.
LT72UL	1) Item 1, Item 2, Item 3 and Item 4 were extracted using Chelex extraction method, quantified using Quantifiler Human DNA Quantification Kit from Applied Biosystem and carried out by Real-Time PCR. 2) Item 1, Item 2, Item 3 and Item 4 were amplified using AmpFISTR Identifiler and electrophoresis were carried out using Genetic Analyzer 3130xl and 3500xl. 3) Item 2, Item 3 and Item 4 were amplified using Yfiler PCR Kit and electrophoresis were carried out using Genetic Analyzer 3130xl and 3500xl. 4) Reagent blank, positive control and negative control were carried out along with the analysis.
LYDP8N	1. Item 1, Item 2, Item 3 and Item 4 were extracted by in-house Chelex extraction method and Quantified using Quantifiler Human Kit. 2. AMPFISTR Identifiler Plus Kit was used to amplify Item 1, Item 2, Item 3 and Item 4. 3. AMPFISTR Y-Filer Kit was used to amplify Item 2, Item 3 (sperm cells extract) and Item 4. 4. Electrophoresis was carried out using Genetic Analyzer 3500xl for Item 1, Item 2, Item 3 and Item 4. 5. Electrophoresis was carried out using Genetic Analyzer 3130xl for Y-STR product of Item 2, Item 3 (sperm cells extract) and Item 4. 6. Reagent blank, Positive Control and Negative Control were carried out along the analysis and all gave intended results.
M2D9V8	Y-STRs were analyzed for database purposes only. Y-STR data also includes the Y Indel from the GlobalFiler kit for Item 2. DYS391 concordant for GlobalFiler and YFiler
ML62W6	Samples all profiled in PowerPlex Fusion. DYS391 amplified but no alleles present for Item 1 and Item 3e.
MNQ3GJ	* Sister allele presented below analytical threshold. ** Allele presented below analytical threshold.
MXAMUN	ITEM 3SP IS BEING REPORTED CONSIDERING IDENTIFILER AND 24PLEX QS RESULTS.
PPUKND	1- The Genetic profile of item (1) refers to single female (victim). 2- The Genetic profile of item (2) refers to single male (suspect). 3- Differential extraction was performed for item (3). The Genetic profile of the sperm refers to single male (suspect), and The Genetic profile of the blood refers to the victim. 4- The Genetic profile of the blood on item (4) refers to single male (suspect).
PQ83T6	Y STR loci were concordant between GF and YF kits.
Q934Z8	Probabilistics genotyping (STRmix)used for data analysis with stutter peaks unfiltered. Alleles comprising genotype combinations with total weighings of 99% or greater reported.
QFGX8W	Elevated stutter were seen in the epithelial fraction of item 3, which increased the signal for allele 16 of vWA and for allele 23 of FGA. The minor alleles reported for the epithelial fraction of item 3 corresponded to alleles that were effectively over the limit of detection, despite they were below the analytical treshold of good quality DNA samples.
QTT723	For DYS392, YF and GF data results were concordant.
U6Q97E	NR = No Results
V3JBBC	1. Item 1, Item 2, Item 3 and Item 4 were extracted by in-house Chelex extraction method and Quantified using Quantifiler Human Kit. 2. AMPFISTR Identifiler Plus Kit was used to amplify Item 1, Item 2, Item 3 and Item 4. 3. AMPFISTR Y-Filer Kit was used to amplify Item 2, Item 3 (sperm cells extract) and Item 4. 4. Electrophoresis was carried out using Genetic Analyzer 3500xl for Item 1, Item 2, Item 3 and Item 4. 5. Electrophoresis was carried out using Genetic Analyzer 3130xl for Y-STR product of Item 2, Item 3 (sperm cells extract) and Item 4. 6. Reagent blank, Positive Control and Negative Control were carried out along the analysis and all gave intended results.
V8EYT6	Partial YSTR DNA results were obtained on the E fraction of item 3. The table only lists a 15 at DYS385. This was noted as a partial result during interpretation as the allele did not meet the laboratory's threshold for both alleles being present at this locus. DYS391 was concordant in Item 2, 3, and 4 where the locus was amplified in both the autosomal and YSTR multiplexes. Note the e fraction of item 3 did not yield a result at DYS391 for the Yfiler Plus system.



TABLE 5

WebCode	Additional Comments
V8TQFU	DYS391 results listed under "Additional DNA Results" section are from Fusion 5C amplification.
VEQF26	Spermatozoa were observed in the sperm cell fraction of item 3.
VGHA3F	A partial profile was obtained for Item 3 ep fraction so loci with a "-" were where no results were obtained.
VXBXEZ	Items 2, 3sp, 4 have concordant results between GF and YF.
W7Z6CV	DYS391 GF and YF data results were concordant for Items 3-1M, 4-1 and 2
XNPY8P	it is very easy. I hope de next time the test includes statistics and low template DNA.
Y4KCN7	Victim (Item 1) can be read on the mixture profile from blood stain of Item 3.
YBZDLV	NR = no results
ZMDNXR	*Item 3 Epithelial Fraction D12S391 locus 18.3 peak present however unable to be resolved by GeneMapper® ID-X software. [From Table 1 - STR Amplification Kit(s) & Results, Item 3: "**See Part IV" [Additional Comments]]
ZTV668	Item 1, Item 2 and Item 4 were extracted using Prepfilr Express Forensic DNA Extraction Kit. Item 3 was extracted using Chelex method for differential extraction. Separation and detection of amplified products were performed using Applied Biosystems 3130xL Genetic Analyzer and analysis was carried out by GeneMapper ID v3.2.1. software

# Appendix: Data Sheet

Collaborative Testing Services ~ Forensic Testing Program

## **Test No. 17-5804: DNA-Semen**

DATA MUST BE RECEIVED BY September 5, 2017 TO BE INCLUDED IN THE REPORT

Participant Code:

WebCode:

### **Accreditation Release Statement**

CTS submits external proficiency test data directly to ASCLD/LAB, ANAB, and 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 on the last page must be completed and submitted.)
- This participant's data is **NOT** intended for submission to ASCLD/LAB, ANAB or A2LA.

#### Scenario:

Police are investigating the sexual assault of a woman in her home. The victim claimed that her home had been broken into and that she was sexually assaulted. Based on the description given by the victim, a suspect was apprehended. Investigators submitted items of evidence and the screening has been completed with the following results: the victim's underwear (Item 3) tested positive for both blood and semen, and the victim's skirt (Item 4) tested positive for blood only. The screening lab is submitting these samples (Items 3 and 4) along with known blood samples from the victim (Item 1) and the suspect (Item 2).

#### Items Submitted (Sample Pack S4):

- Item 1: Known blood from the female victim
- Item 2: Known blood from the male suspect
- Item 3: Questioned blood and semen mixture stain from the victim's underwear (pink material)
- Item 4: Questioned blood stain from victim's skirt (blue/white patterned material)

**Please return all pages of this data sheet.**

Page 1 of 8

Part I: DNA ANALYSIS

DNA Analysis Instructions:

Use the instructions below to complete the following DNA Analysis sections of this data sheet.

- \* Report alleles in numerical order, separated by a comma.
- \* Follow your laboratory policy for reporting homozygotes.
- \* If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].
- \* Stains with more than one contributor: If a differential extraction is performed, split the box with a horizontal line and report the results of the different fractions above and below the line - indicate which is the sperm fraction (sp) and which is the epithelial fraction (e) (Example A); otherwise, list the alleles in numerical order (Example B).

<b>Example</b>	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818	
<b>A</b>	<i>e</i>	10,11	15,16	8	12,13	7	8
	<i>sp</i>	12,13	15,17	8,17	11	14,15	11,13
<b>B</b>	[10],[11],12,13	15,[16],17	8,17	[11],12,13	7,14,15	8,11,13	

**\*\*Please note Data Sheet Changes\*\***

The data sheet has been updated to account for loci covered in newer amplifications kits.

Reporting of YSTR alleles generated from primarily autosomal STR multiplex systems.

- 1) Select the amplification kit in the YSTR results section.
- 2) Record your YSTR allele(s) in the YSTR results section.
- 3) If necessary, discuss overlapping loci results in the Additional Comments section.

Additional DNA Results:

Please use the section below to report results only for loci not available on the following pages.

	<b>Item 1</b>	<b>Item 2</b>	<b>Item 3</b>	<b>Item 4</b>
_____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
_____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
_____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
_____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Please return all pages of this data sheet.**

Part I (continued): DNA Results for Known Item 1

**STR Amplification Kit(s) Used:** Please check the brands used for this item and record only additional kit specific information in the blank provided (i.e. 16, Direct, etc.).

Identifiler® \_\_\_\_\_
  PowerPlex® \_\_\_\_\_
  Investigator® 24plex \_\_\_\_\_  
 GlobalFiler™ \_\_\_\_\_
  COfiler®/Profiler Plus® \_\_\_\_\_
  ForenSeq™ Other \_\_\_\_\_

<b>ITEM</b>	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	Penta E	SE33	TH01	TPOX	vWA	
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

**YSTR Amplification Kit(s) Used:** Please check the brands used for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

Yfiler® \_\_\_\_\_
  PowerPlex® Fusion \_\_\_\_\_
  Investigator® 24plex \_\_\_\_\_  
 PowerPlex® Y \_\_\_\_\_
  GlobalFiler™ \_\_\_\_\_
  ForenSeq™ Other \_\_\_\_\_

<b>ITEM</b>	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	DYS437	
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>ITEM</b>	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>ITEM</b>	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	Y GATA H4	Y Indel
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please return all pages of this data sheet.

Part I (continued): DNA Results for Known Item 2

**STR Amplification Kit(s) Used:** Please check the brands used for this item and record only additional kit specific information in the blank provided (i.e. 16, Direct, etc.).

Identifiler® \_\_\_\_\_
  PowerPlex® \_\_\_\_\_
  Investigator® 24plex \_\_\_\_\_  
 GlobalFiler™ \_\_\_\_\_
  COfiler®/Profiler Plus® \_\_\_\_\_
  ForenSeq™ Other \_\_\_\_\_

<b>ITEM</b>	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	Penta E	SE33	TH01	TPOX	vWA	
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

**YSTR Amplification Kit(s) Used:** Please check the brands used for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

Yfiler® \_\_\_\_\_
  PowerPlex® Fusion \_\_\_\_\_
  Investigator® 24plex \_\_\_\_\_  
 PowerPlex® Y \_\_\_\_\_
  GlobalFiler™ \_\_\_\_\_
  ForenSeq™ Other \_\_\_\_\_

<b>ITEM</b>	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	DYS437	
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>ITEM</b>	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>ITEM</b>	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	Y GATA H4	Y Indel
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please return all pages of this data sheet.

Part I (continued): DNA Results for Questioned Item 3

**STR Amplification Kit(s) Used:** Please check the brands used for this item and record only additional kit specific information in the blank provided (i.e. 16, Direct, etc.).

Identifiler® \_\_\_\_\_
  PowerPlex® \_\_\_\_\_
  Investigator® 24plex \_\_\_\_\_

GlobalFiler™ \_\_\_\_\_
  COfiler®/Profiler Plus® \_\_\_\_\_
  ForenSeq™ \_\_\_\_\_
 Other \_\_\_\_\_

<b>ITEM</b>	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	Penta E	SE33	TH01	TPOX	vWA	
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

**YSTR Amplification Kit(s) Used:** Please check the brands used for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

Yfiler® \_\_\_\_\_
  PowerPlex® Fusion \_\_\_\_\_
  Investigator® 24plex \_\_\_\_\_

PowerPlex® Y \_\_\_\_\_
  GlobalFiler™ \_\_\_\_\_
  ForenSeq™ \_\_\_\_\_
 Other \_\_\_\_\_

<b>ITEM</b>	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	DYS437	
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>ITEM</b>	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>ITEM</b>	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	Y GATA H4	Y Indel
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please return all pages of this data sheet.

Part I (continued): DNA Results for Questioned Item 4

**STR Amplification Kit(s) Used:** Please check the brands used for this item and record only additional kit specific information in the blank provided (i.e. 16, Direct, etc.).

Identifiler® \_\_\_\_\_
  PowerPlex® \_\_\_\_\_
  Investigator® 24plex \_\_\_\_\_

GlobalFiler™ \_\_\_\_\_
  COfiler®/Profiler Plus® \_\_\_\_\_
  ForenSeq™ \_\_\_\_\_
 Other \_\_\_\_\_

<b>ITEM</b>	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	Penta E	SE33	TH01	TPOX	vWA	
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

**YSTR Amplification Kit(s) Used:** Please check the brands used for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

Yfiler® \_\_\_\_\_
  PowerPlex® Fusion \_\_\_\_\_
  Investigator® 24plex \_\_\_\_\_

PowerPlex® Y \_\_\_\_\_
  GlobalFiler™ \_\_\_\_\_
  ForenSeq™ \_\_\_\_\_
 Other \_\_\_\_\_

<b>ITEM</b>	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	DYS437	
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>ITEM</b>	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<b>ITEM</b>	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	Y GATA H4	Y Indel
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please return all pages of this data sheet.

**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)?

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

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**DNA interpretations not reported; samples analyzed for database purposes only.**

**Part IV: ADDITIONAL COMMENTS**

Comments regarding any part of this Forensic Biology Test.

*Written conclusions (including statistical information) for DNA analysis are not required. Any interpretations based on the results obtained should be indicated above.*

*Note: Laboratories submitting their results for ASCLD/LAB 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.*

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**Return Instructions:** Data must be received via online data entry, fax (please include a cover sheet), or mail by **September 05, 2017** to be included in the report. Emailed data sheets are not accepted.

ONLINE DATA ENTRY: [www.cts-portal.com](http://www.cts-portal.com)

FAX: +1-571-434-1937

MAIL: Collaborative Testing Services, Inc.  
P.O. Box 650820  
Sterling, VA 20165-0820 USA

QUESTIONS?  
TEL: +1-571-434-1925 (8 am - 4:30 pm EST)  
EMAIL: [forensics@cts-interlab.com](mailto:forensics@cts-interlab.com)  
[www.ctsforensics.com](http://www.ctsforensics.com)

**Please return all pages of this data sheet.**



Collaborative Testing Services - Forensic Testing Program

**RELEASE OF DATA TO ACCREDITATION BODIES**

The following Accreditation Releases will apply only to:

Participant Code:

WebCode:

for Test No. **17-5804: DNA-Semen**

This release page must be completed and received by **September 5, 2017** to have this participant's submitted data included in the reports forwarded to the respective Accreditation Bodies.

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**

**ASCLD/LAB** Certificate No. \_\_\_\_\_

**ANAB** Certificate No. \_\_\_\_\_

**A2LA** Certificate No. \_\_\_\_\_

**Step 2: Complete the Laboratory Identifying Information in its entirety**

Signature and Title \_\_\_\_\_

Laboratory Name \_\_\_\_\_

Location (City/State) \_\_\_\_\_

**Accreditation Release**

**Return Instructions**

*Please submit the completed Accreditation Release at the same time as your full data sheet. See Data Sheet Return Instructions on the previous page.*

*Questions? Contact us 8 am-4:30 pm EST  
Telephone: +1-571-434-1925  
email: forensics@cts-interlab.com*

**Please return all pages of this data sheet.**