



## **DNA-Blood Test No. 20-5805**

### **Summary Report**

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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 226 participants 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 FTA Micro cards (Items 1 & 2), and two questioned stains; one on clean pink fabric (Item 3) and one on clean, off-white fabric (Item 4). Participants were requested to analyze these items using their existing protocols.

**SAMPLE PREPARATION:** The stains in Items 1, 2, 3, and 4 were prepared using human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. Items 1 (75  $\mu$ l) and 3 (50  $\mu$ l) were created using blood from the same male donor. Items 2 (75  $\mu$ l) and 4 (50  $\mu$ l) were created using blood from the same male donor. 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 September 8, 2020 following receipt of predistribution results.

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

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

## Manufacturer's Information, continued

### Amelogenin and STR Results

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

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	
<hr style="border-top: 1px dashed #000;"/>						
1	12,16.3	17,25	13,14	15,16	11,12	*
	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19	2	
<hr style="border-top: 1px dashed #000;"/>						
2	15,18.3	17,23	11,14	15,15	11,12	*
	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14	2	
<hr style="border-top: 1px dashed #000;"/>						
3	12,16.3	17,25	13,14	15,16	11,12	*
	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19	2	
<hr style="border-top: 1px dashed #000;"/>						
4	15,18.3	17,23	11,14	15,15	11,12	*
	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14	2	

### YSTR Results

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

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<hr style="border-top: 1px dashed #000;"/>									
1	37	14	12,13	13	29,30	23	11	13	13
	15,16	12	10,11	19	30	15	16	10	24
	38	12	12	18	19	21	23	10	11
<hr style="border-top: 1px dashed #000;"/>									
2	36,40	15	17,20	13	30	20	10	11	13
	14	11	13	21	31	15	17	10	27
	41	11	11	17	14	18	23	13	12
<hr style="border-top: 1px dashed #000;"/>									
3	37	14	12,13	13	29,30	23	11	13	13
	15,16	12	10,11	19	30	15	16	10	24
	38	12	12	18	19	21	23	10	11
<hr style="border-top: 1px dashed #000;"/>									
4	36,40	15	17,20	13	30	20	10	11	13
	14	11	13	21	31	15	17	10	27
	41	11	11	17	14	18	23	13	12

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

## **Summary Comments**

The 20-5805 DNA-Blood test is part of the DNA Sample Specific Series, where participants are advised of the body fluid(s) that made up the questioned stains. The test is designed to allow participants to assess their proficiency in the analysis of dried stains. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Items 1 and 3 were created using blood from the same male donor. Items 2 and 4 were created using blood collected from the same male donor. (See Manufacturer's Information for preparation details)

Of the 226 participants that returned results, 188 reported DNA interpretations. Twenty-nine participants stated that the samples were only analyzed for database purposes.

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

For the Item 4 stain, all participants that reported interpretations excluded the victim (Item 1) as a possible contributor and included the suspect (Item 2).

A total of 34 participants reported the use of Probabilistic Genotyping (PG) software on either solely the questioned items or all four items. No inconsistent results were reported by these participants.

One participant reported allelic responses that differed from the consensus/predistribution results for Items 3 and 4 at the DYS576 locus. Based on the interpretations above, this inconsistency did not appear to affect this participant's conclusions.

# STR Amplification Kit(s) & Results

TABLE 1

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

## Item 1 - STR Results

23Y9V2	Identifiler®, Investigator® 24plex QS					
	12,16.3	17,25	13,14	15,16	11,12	N/A
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	N/A	N/A	16,20	6,9.3	8,11
	16,16	11	N/A	N/A	N/A	
27496U	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
299JUM	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
2FP24P	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
2JNBFC	PowerPlex® 21					
	12,16.3	17,25		15,16	11,12	11,12
1	10,12	12,13		18,20	10,13	9,11
	13,16	14,15.2	30,31.2		X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16					
2LXJKP	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	

TABLE 1

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

## Item 1 - STR Results

38TUBQ	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
394YPE	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
3AYRUQ	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
3BAUFP	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
3GHH9D	Investigator® 24plex QS					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
3PNPND	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
47CRT2	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	

TABLE 1

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

## Item 1 - STR Results

4DBA8D	GlobalFiler™					
		12,16.3	17,25	13,14	15,16	11,12
1		10,12	12,13	13	18,20	10,13
		13,16	14,15.2	30,31.2	11,15	X,Y
		24			16,20	6,9.3
		16	11			2
4DC8GN	GlobalFiler™					
		12,16.3	17,25	13,14	15,16	11,12
1		10,12	12,13	13	18,20	10,13
		13,16	14,15.2	30,31.2	11,15	X,Y
		24			16,20	6,9.3
		16	11			2
4GBK4D	GlobalFiler™					
		12,16.3	17,25	13,14	15,16	11,12
1		10,12	12,13	13,13	18,20	10,13
		13,16	14,15.2	30,31.2	11,15	X,Y
		24,24			16,20	6,9.3
		16,16	11			2
4HNPNC	PowerPlex® Fusion 5C					
		12,16.3	17,25	13,14	15,16	11,12
1		10,12	12,13	13,13	18,20	10,13
		13,16	14,15.2	30,31.2	11,15	X,Y
		24,24	12,12	11,15		6,9.3
		16,16	11			
4M287T	GlobalFiler™ Express					
		12,16.3	17,25	13,14	15,16	11,12
1		10,12	12,13	13,13	18,20	10,13
		13,16	14,15.2	30,31.2	11,15	X,Y
		24,24			16,20	6,9.3
		16,16	11			2
4V96RB	PowerPlex® Fusion 5C					
		12,16.3	17,25	13,14	15,16	11,12
1		10,12	12,13	13,13	18,20	10,13
		13,16	14,15.2	30,31.2	11,15	X,Y
		24,24	12,12	11,15		6,9.3
		16,16	11			
4WNRJJ	GlobalFiler™					
		12,16.3	17,25	13,14	15,16	11,12
1		10,12	12,13	13	18,20	10,13
		13,16	14,15.2	30,31.2	11,15	X,Y
		24			16,20	6,9.3
		16	11			2

TABLE 1

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

## Item 1 - STR Results

4Y9FNB	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
66GJ6H	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
6B2WDC	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
6E287Q	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
6EKEMM	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
6GCHCN	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
6JF9KN	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	



TABLE 1

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

## Item 1 - STR Results

6KQCQZ	Identifiler®, Investigator® 24plex QS					
	12,16.3	17,25	13,14	15,16	11,12	N/A
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	N/A	N/A	16,20	6,9.3	8,11
	16,16	11	N/A	N/A	N/A	
6N8KEY	PowerPlex® 5C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
6WLY7Q	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
72BV8L	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
72DX7J	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
73QKQJ	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
742WDA	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	

TABLE 1

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

## Item 1 - STR Results

74GTPM	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
74JHW6	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
7KPYK	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
7PUBNP	PowerPlex® 16HS					
				15,16	11,12	
1	10,12	12,13			10,13	9,11
	13,16		30,31.2		X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16					
7V7LUJ	PowerPlex® Fusion					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15		6,9.3	8,11
	16	11				
8HEEB9	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
8QPGWA	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		

TABLE 1

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

## Item 1 - STR Results

9EAJCK	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
9GZKH9	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
9HQE7H	PowerPlex® Fusion					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15		6,9.3	8,11
	16	11				
9JPGX8	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	N/A
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19	N/A	
9JYNWU	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
9ZAAFJ	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
A2ZULF	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	

TABLE 1

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

## Item 1 - STR Results

A6G3AF	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
A6HKYK	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
A7AHDJ	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
A9JXTH	PowerPlex® Fusion6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
A9KN9D	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
AELAPF	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
AEN6N9	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				

TABLE 1

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

## Item 1 - STR Results

AHKLKE	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
AYYKZD	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
BFXT36	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
BMZA6C	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
BQEQEF	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
BTMWZG	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
C2TXGG	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	

TABLE 1

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

## Item 1 - STR Results

C76DXD	GlobalFiler™					
		12,16.3	17,25	13,14	15,16	11,12
1		10,12	12,13	13,13	18,20	10,13
		13,16	14,15.2	30,31.2	11,15	X,Y
		24,24			16,20	6,9.3
		16,16	11			2
C9W6C6	PowerPlex® Fusion 6C					
		12,16.3	17,25	13,14	15,16	11,12
1		10,12	12,13	13	18,20	10,13
		13,16	14,15.2	30,31.2	11,15	X,Y
		24	12	11,15	16,20	6,9.3
		16	11	18	19	
CCX97D	GlobalFiler™					
		12,16.3	17,25	13,14	15,16	11,12
1		10,12	12,13	13	18,20	10,13
		13,16	14,15.2	30,31.2	11,15	X,Y
		24			16,20	6,9.3
		16	11			2
CF8QXD	PowerPlex® Fusion					
		12,16.3	17,25	13,14	15,16	11,12
1		10,12	12,13	13	18,20	10,13
		13,16	14,15.2	30,31.2	11,15	X,Y
		24	12	11,15		6,9.3
		16	11			
CLE2BE	GlobalFiler™					
		12,16.3	17,25	13,14	15,16	11,12
1		10,12	12,13	13,13	18,20	10,13
		13,16	14,15.2	30,31.2	11,15	X,Y
		24,24			16,20	6,9.3
		16,16	11			2
CQCDC7	PowerPlex® Fusion 6C					
		12,16.3	17,25	13,14	15,16	11,12
1		10,12	12,13	13	18,20	10,13
		13,16	14,15.2	30,31.2	11,15	X,Y
		24	12	11,15	16,20	6,9.3
		16	11	18	19	
CXB84C	PowerPlex® Fusion 5C					
		12,16.3	17,25	13,14	15,16	11,12
1		10,12	12,13	13	18,20	10,13
		13,16	14,15.2	30,31.2	11,15	X,Y
		24	12	11,15		6,9.3
		16	11			

TABLE 1

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

## Item 1 - STR Results

DA3LUF	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
DBDWXR	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	-
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	-	-	16,20	6,9.3	8,11
	16	11	-	-	2	
DGHRJC	PowerPlex® Fusion					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15		6,9.3	8,11
	16	11				
DHGVB3	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
DNZ7HC	PowerPlex® ESX17 fast system					
	12,16.3	17,25	13,14	15,16		
1		12,13	13,13	18,20		9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	
	24,24			16,20	6,9.3	
	16,16					
DQQWGH	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
DTDEY3	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				

TABLE 1

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

## Item 1 - STR Results

DZX2KD	PowerPlex® Fusion					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15		6,9.3	8,11
	16	11				
E3V3ZZ	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
E9LP3F	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
EBBG8C	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
ER2Y4G	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
EWA6CD	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
F46CNR	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	Not Tested
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	Not Tested	Not Tested	16,20	6,9.3	8,11
	16,16	11	Not Tested	Not Tested	Not Tested	



TABLE 1

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

## Item 1 - STR Results

F6JTPC	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
FKV88A	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
FLKD8F	verifiler plus					
	12,16.3	17,25	13,14	15,16	11,12	11,12
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16				2	
FMLDMZ	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
FRFCXP	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	-
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	-	-	16,20	6,9.3	8,11
	16	11	-	-	2	
FWPNVB	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
FX2ZJ2	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				

TABLE 1

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

## Item 1 - STR Results

FYDMA9	Investigator® 24plex GO!					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11				
G8J734	PowerPlex® 16 ESI FAST					
	12,16.3	17,25	13,14	15,16		
1		12,13	13,13	18,20		9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	
	24,24				6,9.3	
	16,16					
GGPJAE	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
GJFCXM	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
GY94G3	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
GYAA9D	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
H9UME9	PowerPlex® Fusion					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15		6,9.3	8,11
	16	11				

TABLE 1

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

## Item 1 - STR Results

H9UZ9B	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
HE2YQ9	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	--
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	--	--	16,20	6,9.3	8,11
	16,16	11	--	--	2	
HLJYYD	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
HMBXDB	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
HQAAAB	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
HY43BV	PowerPlex® 21					
	12,16.3	17,25		15,16	11,12	11,12
1	10,12	12,13		18,20	10,13	9,11
	13,16	14,15.2	30,31.2		X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16					
J246MW	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				

TABLE 1

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

## Item 1 - STR Results

J7J8K8	PowerPlex® Fusion					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15		6,9.3	8,11
	16	11				
JCPJW8	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
JEYQ2L	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	-
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	-	-	16,20	6,9.3	8,11
	16	11	-	-	2	
K323NX	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
K7HP23	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
K7YQ3J	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
K89WHT	Identifiler® Plus					
		17,25		15,16	11,12	
1	10,12	12,13			10,13	9,11
	13,16	14,15.2	30,31.2		X,Y	11,12
	24,24				6,9.3	8,11
	16,16					

TABLE 1

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

## Item 1 - STR Results

KBCJY4	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
KGDFPA	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
KJMLK6	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
KKYX8V	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
KM9FFJ	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
KPRUGY	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
KVHYFU	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		

TABLE 1

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

## Item 1 - STR Results

KZCW88	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
KZN638	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
L7BEPB	GlobalFiler™ (mRMP by Familias3)					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
LBPKDP	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
LBR3J2	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
LRD4G8	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
LT7JLU	PowerPlex® fusion 6c					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		

TABLE 1

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

## Item 1 - STR Results

MG7FTJ	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
MLNHX4	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
MNR986	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
MUVCTW	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
MZ2E7T	PowerPlex® Fusion					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
N4F4UF	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
N9C3H7	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	

TABLE 1

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

## Item 1 - STR Results

NLZ299	GlobalFiler™						
		12,16.3	17,25	13,14	15,16	11,12	
	1	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24			16,20	6,9.3	8,11
	16,16	11			2		
NP2TAY	GlobalFiler™						
		12,16.3	17,25	13,14	15,16	11,12	
	1	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24			16,20	6,9.3	8,11
	16	11			2		
NUQME7	PowerPlex® Fusion 6C						
		12,16.3	17,25	13,14	15,16	11,12	
	1	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19			
NXC4G4	PowerPlex® Fusion 6C						
		12,16.3	17,25	13,14	15,16	11,12	
	1	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19			
NXCWVY	GlobalFiler™						
		12,16.3	17,25	13,14	15,16	11,12	
	1	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24			16,20	6,9.3	8,11
	16	11			2		
NZ32CP	GlobalFiler™						
		12,16.3	17,25	13,14	15,16	11,12	
	1	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24			16,20	6,9.3	8,11
	16,16	11			2		
NZFRXF	PowerPlex® Fusion						
		12,16.3	17,25	13,14	15,16	11,12	
	1	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24	12,12	11,15		6,9.3	8,11
	16,16	11					



TABLE 1

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

## Item 1 - STR Results

PHWTH3	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
PKYN27	Identifiler®					
		17,25		15,16	11,12	
1	10,12	12,13			10,13	9,11
	13,16	14,15.2	30,31.2		X,Y	11,12
	24				6,9.3	8,11
	16					
PWU77R	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
Q4PUXF	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	Not tested
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	Not tested	Not tested	16,20	6,9.3	8,11
	16,16	11	Not tested	Not tested	Not tested	
Q6MXQQ	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
Q7YRBX	Investigator® 24plex GO!					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11				
Q97W3Z	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		

TABLE 1

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

## Item 1 - STR Results

QCGAKY	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
QHNR3Z	GlobalFiler™ (STRmix v2.4.05)					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
QMKTBN	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
QMPHPE	Identifiler® Direct					
		17,25		15,16	11,12	
1	10,12	12,13			10,13	9,11
	13,16	14,15.2	30,31.2		X,Y	11,12
	24				6,9.3	8,11
	16					
QNZF3W	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
QPV3EZ	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
QRZQXW	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	

TABLE 1

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

## Item 1 - STR Results

QWNFAT	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
R4JW3B	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
RBPXEL	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
RDUYMC	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
RFH364	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
RGA2J3	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
RGAPQL	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	

TABLE 1

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

## Item 1 - STR Results

RVC36W	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15		6,9.3	8,11
	16	11				
TCJEGM	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
TEJRVZ	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
TFJHBV	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
TL6K8Y	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15		6,9.3	8,11
	16	11				
TNRRH3	verifiler plus					
	12,16.3	17,25	13,14	15,16	11,12	11,12
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16				2	
TQD4AY	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				

TABLE 1

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

## Item 1 - STR Results

TW4AAU	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
TZJFFN	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
ULHW3A	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
UMBUQ4	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
UTXBAL	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
UTY8HV	PowerPlex® Fusion					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15		6,9.3	8,11
	16	11				
UZXU8B	Identifiler® DIRECT					
		17,25		15,16	11,12	
1	10,12	12,13			10,13	9,11
	13,16	14,15.2	30,31.2		X,Y	11,12
	24				6,9.3	8,11
	16					

TABLE 1

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

## Item 1 - STR Results

V7MPQU	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
VJ3URV	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
VNXNPW	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
VY27FL	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
W4CJXK	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
W92NF9	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
W9LWFJ	PowerPlex® Fusion 5C, MiniFiler					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				

TABLE 1

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

## Item 1 - STR Results

WFKRMB	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
WJ2QTX	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
WNHCR	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
WQLEE8	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	-
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	-	-	16,20	6,9.3	8,11
	16	11	-	-	2	
WT7X9W	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
WVFNX2	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
WVG44R	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	

TABLE 1

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

## Item 1 - STR Results

WWBU8K	GlobalFiler™	12,16.3	17,25	13,14	15,16	11,12	
	1	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24			16,20	6,9.3	8,11
		16,16	11			2	
WWCRFV	PowerPlex® Fusion 6C	12,16.3	17,25	13,14	15,16	11,12	
	1	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24	12,12	11,15	16,20	6,9.3	8,11
		16,16	11	18	19		
X6ZEXX	verifiler plus	12,16.3	17,25	13,14	15,16	11,12	11,12
	1	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24	12,12	11,15		6,9.3	8,11
		16,16				2	
XEPVBL	GlobalFiler™	12,16.3	17,25	13,14	15,16	11,12	
	1	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24			16,20	6,9.3	8,11
		16	11			2	
XLP6PR	GlobalFiler™ Express	12,16.3	17,25	13,14	15,16	11,12	
	1	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24			16,20	6,9.3	8,11
		16	11			2	
XMFDPV	PowerPlex® Fusion 6C	12,16.3	17,25	13,14	15,16	11,12	
	1	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24	12	11,15	16,20	6,9.3	8,11
		16	11	18	19		
XMG44P	GlobalFiler™	12,16.3	17,25	13,14	15,16	11,12	
	1	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24			16,20	6,9.3	8,11
		16	11			2	



TABLE 1

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

## Item 1 - STR Results

XQVBAJ	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
XREZUY	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
XUZCJA	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
XXX9Q	PowerPlex® Fusion					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15		6,9.3	8,11
	16	11				
XZ76D6	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
Y8KJ6V	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
YBHMRT	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	N/A
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	N/A	N/A	16,20	6,9.3	8,11
	16	11	N/A	N/A	2	

TABLE 1

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

## Item 1 - STR Results

YHK9NH	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
YNATRX	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
YT3DQT	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
Z37Z9R	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
Z76B4R	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15		6,9.3	8,11
	16	11				
Z8U8JR	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
ZEEBQU	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	

TABLE 1

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

## Item 1 - STR Results

ZGJVGF	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
ZGPGLP	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
ZHZT9F	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
ZKJ8CF	PowerPlex® Fusion					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
ZN3PMQ	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
ZXDR9R	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
ZYPZ4R	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		

TABLE 1

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

Item 1 - STR Results

ZZ4XPH	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
1	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	

TABLE 1

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

## Item 2 - STR Results

23Y9V2	Identifiler®, Investigator® 24plex QS					
	15,18.3	17,23	11,14	15,15	11,12	N/A
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	N/A	N/A	22.2,33.2	8,9	8,8
	15,16	10	N/A	N/A	N/A	
27496U	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
299JUM	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
2FP24P	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
2JNBFC	PowerPlex® 21					
	15,18.3	17,23		15,15	11,12	11,17
2	10,10	14,14		15,20	9,12	11,11
	15,20	12,13	28,32		X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16					
2LXJKP	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
38TUBQ	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		

TABLE 1

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

## Item 2 - STR Results

394YPE	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
3AYRUQ	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
3BAUFP	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
3GHH9D	MiniFiler					
		17,23				
2	10,10				9,12	11,11
	15,20		28,32		X,Y	10,12
	20,20					
3PNPND	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
47CRT2	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
4DBA8D	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	

TABLE 1

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

## Item 2 - STR Results

4DC8GN	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
4GBK4D	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
4HNPNC	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
4M287T	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
4V96RB	GlobalFiler™ Express Kit					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	Not Tested	Not Tested	22.2,33.2	8,9	8,8
	15,16	10			2	
4WNRJJ	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
4Y9FNB	GlobalFiler™ Express kit					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	

TABLE 1

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

## Item 2 - STR Results

66GJ6H	GlobalFiler™					
		15,18.3	17,23	11,14	15	11,12
2		10	14	13,15	15,20	9,12 11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20			22.2,33.2	8,9 8
		15,16	10			2
6B2WDC	Investigator® 24plex					
		15,18.3	17,23	11,14	15,15	11,12
2		10,10	14,14	13,15	15,20	9,12 11,11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20,20			22.2,33.2	8,9 8,8
		15,16	10			
6E287Q	GlobalFiler™ Express					
		15,18.3	17,23	11,14	15,15	11,12
2		10,10	14,14	13,15	15,20	9,12 11,11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20,20			22.2,33.2	8,9 8,8
		15,16	10			2
6EKEMM	GlobalFiler™					
		15,18.3	17,23	11,14	15	11,12
2		10	14	13,15	15,20	9,12 11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20			22.2,33.2	8,9 8
		15,16	10			2
6GCHCN	PowerPlex® Fusion 6C					
		15,18.3	17,23	11,14	15,15	11,12
2		10,10	14,14	13,15	15,20	9,12 11,11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20,20	2.2,11	10,18	22.2,33.2	8,9 8,8
		15,16	10	17	14	
6JF9KN	GlobalFiler™ Express					
		15,18.3	17,23	11,14	15	11,12
2		10	14	13,15	15,20	9,12 11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20			22.2,33.2	8,9 8
		15,16	10			2
6KQCQZ	Identifiler®, Investigator® 24plex QS					
		15,18.3	17,23	11,14	15,15	11,12 N/A
2		10,10	14,14	13,15	15,20	9,12 11,11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20,20	N/A	N/A	22.2,33.2	8,9 8,8
		15,16	10	N/A	N/A	N/A



TABLE 1

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

## Item 2 - STR Results

6N8KEY	PowerPlex® 5C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
6WLY7Q	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
72BV8L	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
72DX7J	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
73QKQJ	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
742WDA	GlobalFiler™, Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
74GTPM	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		

TABLE 1

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

## Item 2 - STR Results

74JHW6	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
7KPXYK	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
7PUBNP	PowerPlex® 16HS					
				15,15	11,12	
2	10,10	14,14			9,12	11,11
	15,20		28,32		X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16					
7V7LUJ	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				
8HEEB9	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
8QPGWA	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
9EAJCK	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		

TABLE 1

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

## Item 2 - STR Results

9GZKH9	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
9HQE7H	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				
9JPGX8	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	N/A
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14	N/A	
9JYNWU	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
9ZAAFJ	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
A2ZULF	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
A6G3AF	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	

TABLE 1

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

## Item 2 - STR Results

A6HKYK	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
A7AHDJ	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
A9JXTH	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
A9KN9D	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
AELAPF	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
AEN6N9	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
AHKLKE	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	

TABLE 1

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

## Item 2 - STR Results

AYYKZD	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
BFXT36	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
BMZA6C	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
BQEQEF	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
BTMWZG	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
C2TXGG	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
C76DXD	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	

TABLE 1

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

## Item 2 - STR Results

C9W6C6	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
CCX97D	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
CF8QXD	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				
CLE2BE	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
CQCDC7	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
CXB84C	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				
DA3LUF	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		

TABLE 1

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

## Item 2 - STR Results

DBDWXR	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15	11,12	-
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	-	-	22.2,33.2	8,9	8
	15,16	10	-	-	2	
DGHRJC	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				
DHGVB3	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
DNZ7HC	PowerPlex® ESX17 fast system					
	15,18.3	17,23	11,14	15,15		
2		14,14	13,15	15,20		11,11
	15,20	12,13	28,32	11,17	X,Y	
	20,20			22.2,33.2	8,9	
	15,16					
DQQWGH	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
DTDEY3	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
DZX2KD	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				

TABLE 1

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

## Item 2 - STR Results

E3V3ZZ	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
E9LP3F	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
EBBG8C	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
ER2Y4G	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
EWA6CD	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
F46CNR	GlobalFiler™ Express kit					
	15,18.3	17,23	11,14	15,15	11,12	Not Tested
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	Not Tested	Not Tested	22.2,33.2	8,9	8,8
	15,16	10	Not Tested	Not Tested	2	
F6JTPC	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	



TABLE 1

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

## Item 2 - STR Results

FKV88A	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
FLKD8F	verifiler plus					
	15,18.3	17,23	11,14	15,15	11,12	11,17
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16				2	
FMLDMZ	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
FRFCXP	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15	11,12	-
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	-	-	22.2,33.2	8,9	8
	15,16	10	-	-	2	
FWPNVB	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
FX2ZJ2	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
FYGMA9	Investigator® 24plex GO!					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10				

TABLE 1

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

## Item 2 - STR Results

G8J734	PowerPlex® 16 ESI FAST					
	15,18.3	17,23	11,14	15,15		
2		14,14	13,15	15,20		11,11
	15,20	12,13	28,32	11,17	X,Y	
	20,20				8,9	
	15,16					
GGPJAE	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
GJFCXM	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
GY94G3	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
GYAA9D	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
H9UME9	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				
H9UZ9B	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		

TABLE 1

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

## Item 2 - STR Results

HE2YQ9	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	--
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	--	--	22.2,33.2	8,9	8,8
	15,16	10	--	--	2	
HLJYYD	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
HMBXDB	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
HQAAAB	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
HY43BV	PowerPlex® 21					
	15,18.3	17,23		15,15	11,12	11,17
2	10,10	14,14		15,20	9,12	11,11
	15,20	12,13	28,32		X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16					
J246MW	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
J7J8K8	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				

TABLE 1

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

## Item 2 - STR Results

JCPJW8	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
JEYQ2L	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15	11,12	-
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	-	-	22.2,33.2	8,9	8
	15,16	10	-	-	2	
K323NX	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
K7HP23	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
K7YQ3J	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
K89WHT	Identifiler® Plus					
		17,23		15,15	11,12	
2	10,10	14,14			9,12	11,11
	15,20	12,13	28,32		X,Y	10,12
	20,20				8,9	8,8
	15,16					
KBCJY4	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	

TABLE 1

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

## Item 2 - STR Results

KGDFFA	GlobalFiler™						
		15,18.3	17,23	11,14	15,15	11,12	
	2	10,10	14,14	13,15	15,20	9,12	11,11
		15,20	12,13	28,32	11,17	X,Y	10,12
		20,20			22.2,33.2	8,9	8,8
		15,16	10			2	
KJMLK6	GlobalFiler™						
		15,18.3	17,23	11,14	15	11,12	
	2	10	14	13,15	15,20	9,12	11
		15,20	12,13	28,32	11,17	X,Y	10,12
		20			22.2,33.2	8,9	8
		15,16	10			2	
KKYX8V	GlobalFiler™ Express						
		15,18.3	17,23	11,14	15,15	11,12	
	2	10,10	14,14	13,15	15,20	9,12	11,11
		15,20	12,13	28,32	11,17	X,Y	10,12
		20,20			22.2,33.2	8,9	8,8
		15,16	10			2	
KM9FFJ	PowerPlex® Fusion 5C						
		15,18.3	17,23	11,14	15,15	11,12	
	2	10,10	14,14	13,15	15,20	9,12	11,11
		15,20	12,13	28,32	11,17	X,Y	10,12
		20,20	2.2,11	10,18		8,9	8,8
		15,16	10				
KPRUGY	GlobalFiler™						
		15,18.3	17,23	11,14	15	11,12	
	2	10	14	13,15	15,20	9,12	11
		15,20	12,13	28,32	11,17	X,Y	10,12
		20			22.2,33.2	8,9	8
		15,16	10			2	
KVHYFU	PowerPlex® Fusion 6C						
		15,18.3	17,23	11,14	15	11,12	
	2	10	14	13,15	15,20	9,12	11
		15,20	12,13	28,32	11,17	X,Y	10,12
		20	2.2,11	10,18	22.2,33.2	8,9	8
		15,16	10	17	14		
KZCW88	GlobalFiler™						
		15,18.3	17,23	11,14	15	11,12	
	2	10	14	13,15	15,20	9,12	11
		15,20	12,13	28,32	11,17	X,Y	10,12
		20			22.2,33.2	8,9	8
		15,16	10			2	

TABLE 1

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

## Item 2 - STR Results

KZN638	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
L7BEPB	GlobalFiler™ (mRMP by Familias3)					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
LBPKDP	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
LBR3J2	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
LRD4G8	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
LT7JLU	PowerPlex® fusion 6c					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
MG7FTJ	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				

TABLE 1

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

## Item 2 - STR Results

MLNHX4	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
MNR986	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
MUVCTW	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
MZ2E7T	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
N4F4UF	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
N9C3H7	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
NLZ299	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	

TABLE 1

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

## Item 2 - STR Results

NP2TAY	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
NUQME7	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
NXC4G4	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
NXCWY	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
NZ32CP	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
NZFRXF	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
PHWTH3	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		



TABLE 1

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

## Item 2 - STR Results

PKYN27	Identifiler®					
		17,23		15	11,12	
2		10	14		9,12	11
		15,20	12,13	28,32	X,Y	10,12
		20			8,9	8
		15,16				
PWU77R	PowerPlex® Fusion 6C					
		15,18.3	17,23	11,14	15	11,12
2		10	14	13,15	15,20	9,12
		15,20	12,13	28,32	11,17	X,Y
		20	2.2,11	10,18	22.2,33.2	8,9
		15,16	10	17	14	
Q4PUXF	GlobalFiler™ Express kit					
		15,18.3	17,23	11,14	15,15	11,12
2		10,10	14,14	13,15	15,20	9,12
		15,20	12,13	28,32	11,17	X,Y
		20,20	Not tested	Not tested	22.2,33.2	8,9
		15,16	10	Not tested	Not tested	2
Q6MXQQ	GlobalFiler™					
		15,18.3	17,23	11,14	15,15	11,12
2		10,10	14,14	13,15	15,20	9,12
		15,20	12,13	28,32	11,17	X,Y
		20,20			22.2,33.2	8,9
		15,16	10			2
Q7YRBX	Investigator® 24plex GO!					
		15,18.3	17,23	11,14	15	11,12
2		10	14	13,15	15,20	9,12
		15,20	12,13	28,32	11,17	X,Y
		20			22.2,33.2	8,9
		15,16	10			
Q97W3Z	PowerPlex® Fusion 6C					
		15,18.3	17,23	11,14	15	11,12
2		10	14	13,15	15,20	9,12
		15,20	12,13	28,32	11,17	X,Y
		20	2.2,11	10,18	22.2,33.2	8,9
		15,16	10	17	14	
QCGAKY	GlobalFiler™					
		15,18.3	17,23	11,14	15,15	11,12
2		10,10	14,14	13,15	15,20	9,12
		15,20	12,13	28,32	11,17	X,Y
		20,20			22.2,33.2	8,9
		15,16	10			2

TABLE 1

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

## Item 2 - STR Results

QHNR3Z	GlobalFiler™ (STRmix v2.4.05)					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
QMKTBN	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
QMPHPE	Identifiler® Direct					
		17,23		15	11,12	
2	10	14			9,12	11
	15,20	12,13	28,32		X,Y	10,12
	20				8,9	8
	15,16					
QNZF3W	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
QPV3EZ	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
QRZQXW	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
QWNFAT	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	

TABLE 1

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

## Item 2 - STR Results

R4JW3B	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
RBPXEL	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
RDUYMC	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
RFH364	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
RGA2J3	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
RGAPQL	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
RVC36W	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				

TABLE 1

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

## Item 2 - STR Results

TCJEGM	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
TEJRVZ	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
TFJHBV	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
TL6K8Y	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				
TNRRH3	verifiler plus					
	15,18.3	17,23	11,14	15,15	11,12	11,17
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16				2	
TQD4AY	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
TW4AAU	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	

TABLE 1

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

## Item 2 - STR Results

TZJFFN	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
ULHW3A	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
UMBUQ4	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
UTXBAL	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
UTY8HV	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				
UZXU8B	Identifiler® DIRECT					
		17,23		15	11,12	
2	10	14			9,12	11
	15,20	12,13	28,32		X,Y	10,12
	20				8,9	8
	15,16					
V7MPQU	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	

TABLE 1

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

## Item 2 - STR Results

VJ3URV	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
VNXNPW	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
VY27FL	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
W4CJXK	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
W92NF9	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
W9LWFJ	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
WFKRMB	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				

TABLE 1

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

## Item 2 - STR Results

WJ2QTX	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
WNHCR	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
WQLEE8	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15	11,12	-
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	-	-	22.2,33.2	8,9	8
	15,16	10	-	-	2	
WT7X9W	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
WVFNX2	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
WVG44R	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
WWBU8K	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	

TABLE 1

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

## Item 2 - STR Results

WWCRFV	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
X6ZEXX	verifiler plus					
	15,18.3	17,23	11,14	15,15	11,12	11,17
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16				2	
XEPVBL	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
XLP6PR	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
XMFDPV	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
XMG44P	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
XQVBAJ	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	



TABLE 1

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

## Item 2 - STR Results

XREZUY	GlobalFiler™					
		15,18.3	17,23	11,14	15	11,12
	2	10	14	13,15	15,20	9,12 11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20			22.2,33.2	8,9 8
		15,16	10			2
XUZCJA	PowerPlex® Fusion 5C					
		15,18.3	17,23	11,14	15,15	11,12
	2	10,10	14,14	13,15	15,20	9,12 11,11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20,20	2.2,11	10,18		8,9 8,8
		15,16	10			
XXX9Q	PowerPlex® Fusion 5C					
		15,18.3	17,23	11,14	15	11,12
	2	10	14	13,15	15,20	9,12 11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20	2.2,11	10,18		8,9 8
		15,16	10			
XZ76D6	Investigator® 24plex					
		15,18.3	17,23	11,14	15,15	11,12
	2	10,10	14,14	13,15	15,20	9,12 11,11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20,20			22.2,33.2	8,9 8,8
		15,16	10			
Y8KJ6V	PowerPlex® Fusion 6C					
		15,18.3	17,23	11,14	15,15	11,12
	2	10,10	14,14	13,15	15,20	9,12 11,11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20,20	2.2,11	10,18	22.2,33.2	8,9 8,8
		15,16	10	17	14	
YBHMRT	GlobalFiler™ Express					
		15,18.3	17,23	11,14	15	11,12 N/A
	2	10	14	13,15	15,20	9,12 11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20	N/A	N/A	22.2,33.2	8,9 8
		15,16	10	N/A	N/A	2
YHK9NH	PowerPlex® Fusion 5C					
		15,18.3	17,23	11,14	15,15	11,12
	2	10,10	14,14	13,15	15,20	9,12 11,11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20,20	2.2,11	10,18		8,9 8,8
		15,16	10			

TABLE 1

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

## Item 2 - STR Results

YNATRX	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
YT3DQT	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
Z37Z9R	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
Z76B4R	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				
Z8U8JR	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
ZEEBQU	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
ZGJVGF	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				

TABLE 1

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

## Item 2 - STR Results

ZGPGLP	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
ZHZT9F	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
ZKJ8CF	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
ZN3PMQ	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
ZXDR9R	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
2	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
ZYPZ4R	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
ZZ4XPH	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
2	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	

TABLE 1

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

## Item 3 - STR Results

23Y9V2	Identifiler®, Investigator® 24plex QS					
	12,16.3	17,25	13,14	15,16	11,12	N/A
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	N/A	N/A	16,20	6,9.3	8,11
	16,16	11	N/A	N/A	N/A	
27496U	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
2FP24P	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
2JNBFC	PowerPlex® 21 (STRmix 2.7.0)					
	12,16.3	17,25		15,16	11,12	11,12
3	10,12	12,13		18,20	10,13	9,11
	13,16	14,15.2	30,31.2		X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16					
38TUBQ	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
394YPE	PowerPlex® Fusion					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
3AYRUQ	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		

TABLE 1

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

## Item 3 - STR Results

3BAUFP	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
3GHH9D	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
3PNPND	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
47CRT2	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
4DBA8D	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
4DC8GN	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
4GBK4D	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	

TABLE 1

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

## Item 3 - STR Results

4HNPNC	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
4M287T	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
4V96RB	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	Not Tested	6,9.3	8,11
	16,16	11			Not Tested	
4WNRJJ	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
4Y9FNB	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
66GJ6H	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
6B2WDC	PowerPlex® Fusion					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				

TABLE 1

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

## Item 3 - STR Results

6E287Q	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
6EKEMM	GlobalFiler™ (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
6GCHCN	PowerPlex® Fusion 6C (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
6KQCQZ	Identifiler®, Investigator® 24plex QS					
	12,16.3	17,25	13,14	15,16	11,12	N/A
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	N/A	N/A	16,20	6,9.3	8,11
	16,16	11	N/A	N/A	N/A	
6N8KEY	PowerPlex® 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
6WLY7Q	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
72BV8L	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		

TABLE 1

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

## Item 3 - STR Results

72DX7J	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
742WDA	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
74GTPM	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
7KPXYK	GlobalFiler™ (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
7PUBNP	PowerPlex® 16HS					
				15,16	11,12	
3	10,12	12,13			10,13	9,11
	13,16		30,31.2		X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16					
7QVC4B	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
7UVFWH	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		



TABLE 1

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

## Item 3 - STR Results

7V7LUJ	PowerPlex® Fusion					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15		6,9.3	8,11
	16	11				
89BZUG	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
8HEEB9	PowerPlex® Fusion 6C (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
8QPGWA	PowerPlex® Fusion 6C (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
8VYUE9	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
9EAJCK	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
9GZKH9	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				

TABLE 1

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

## Item 3 - STR Results

9HQE7H	PowerPlex® Fusion (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15		6,9.3	8,11
	16	11				
9JPGX8	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	N/A
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19	N/A	
9JYNWU	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
9ZAAFJ	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
A2ZULF	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
A6G3AF	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
A6HKYK	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	

TABLE 1

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

## Item 3 - STR Results

A7AHDJ	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
A9JXTH	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
A9KN9D	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
AAEEC8	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
AELAPF	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
AEN6N9	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
AHKLKE	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	

TABLE 1

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

## Item 3 - STR Results

AYYKZD	GlobalFiler™						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24			16,20	6,9.3	8,11
		16	11			2	
BFXT36	PowerPlex® Fusion 5C						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24	12,12	11,15		6,9.3	8,11
		16,16	11				
BMZA6C	GlobalFiler™						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24			16,20	6,9.3	8,11
		16	11			2	
BQEQEF	PowerPlex® Fusion 6C						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24	12	11,15	16,20	6,9.3	8,11
		16	11	18	19		
C2TXGG	GlobalFiler™						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24			16,20	6,9.3	8,11
		16,16	11			2	
C76DXD	GlobalFiler™						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24			16,20	6,9.3	8,11
		16,16	11			2	
C9W6C6	PowerPlex® Fusion 6C (STRmix)						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24	12	11,15	16,20	6,9.3	8,11
		16	11	18	19		

TABLE 1

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

## Item 3 - STR Results

CCX97D	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
CF8QXD	PowerPlex® Fusion					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15		6,9.3	8,11
	16	11				
CLE2BE	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
CQCDC7	PowerPlex® Fusion 6C (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
CXB84C	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15		6,9.3	8,11
	16	11				
DA3LUF	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
DBDWXR	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	-
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	-	-	16,20	6,9.3	8,11
	16	11	-	-	2	

TABLE 1

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

## Item 3 - STR Results

DGHRJC	PowerPlex® Fusion (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15		6,9.3	8,11
	16	11				
DHGV83	PowerPlex® Fusion 6C (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
DNZ7HC	PowerPlex® ESX17 fast system					
	12,16.3	17,25	13,14	15,16		
3		12,13	13,13	18,20		9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	
	24,24			16,20	6,9.3	
	16,16					
DQQWGH	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
DTDEY3	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
DZX2KD	PowerPlex® Fusion (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15		6,9.3	8,11
	16	11				
E3V3ZZ	PowerPlex® Fusion 6C (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		

TABLE 1

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

## Item 3 - STR Results

E9LP3F	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
EBBG8C	GlobalFiler™ (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
ER2Y4G	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
F46CNR	PowerPlex® Fusion					
	12,16.3	17,25	13,14	15,16	11,12	Not Tested
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	Not Tested	6,9.3	8,11
	16,16	11	Not Tested	12,16.3	Not Tested	
FLKD8F	verifiler plus					
	12,16.3	17,25	13,14	15,16	11,12	11,12
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16				2	
FMLDMZ	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
FRFCXP	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	-
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	-	-	16,20	6,9.3	8,11
	16	11	-	-	2	

TABLE 1

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

## Item 3 - STR Results

FWPNVB	GlobalFiler™ (STRmix)						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24			16,20	6,9.3	8,11
	16	11			2		
FX2ZJ2	PowerPlex® Fusion 5C						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24	12,12	11,15		6,9.3	8,11
	16,16	11					
FYGMA9	Investigator® 24plex QS						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24			16,20	6,9.3	8,11
	16	11					
G8J734	PowerPlex® 16 ESI FAST						
		12,16.3	17,25	13,14	15,16		
	3		12,13	13,13	18,20		9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	
		24,24				6,9.3	
	16,16						
GGPJAE	PowerPlex® Fusion 6C						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19			
GJFCXM	Investigator® 24plex						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24			16,20	6,9.3	8,11
	16,16	11					
GY94G3	GlobalFiler™						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24			16,20	6,9.3	8,11
	16	11			2		



TABLE 1

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

## Item 3 - STR Results

GYAA9D	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
H9UME9	PowerPlex® Fusion (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15		6,9.3	8,11
	16	11				
H9UZ9B	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
HE2YQ9	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	--
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	--	--	16,20	6,9.3	8,11
	16,16	11	--	--	2	
HLJYYD	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
HMBXDB	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
HQAAAB	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		

TABLE 1

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

## Item 3 - STR Results

HY43BV	PowerPlex® 21					
	12,16.3	17,25		15,16	11,12	11,12
3	10,12	12,13		18,20	10,13	9,11
	13,16	14,15.2	30,31.2		X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16					
J246MW	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
J7J8K8	PowerPlex® Fusion (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15		6,9.3	8,11
	16	11				
JCPJW8	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
JEYQ2L	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	-
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	-	-	16,20	6,9.3	8,11
	16	11	-	-	2	
K323NX	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
K7HP23	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	

TABLE 1

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

## Item 3 - STR Results

K7YQ3J	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
K89WHT	Identifiler® Plus					
		17,25		15,16	11,12	
3	10,12	12,13			10,13	9,11
	13,16	14,15.2	30,31.2		X,Y	11,12
	24,24				6,9.3	8,11
	16,16					
KBCJY4	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
KGDFPA	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
KJMLK6	GlobalFiler™ (STRMIX)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
KKYX8V	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
KM9FFJ	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				

TABLE 1

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

## Item 3 - STR Results

KPRUGY	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
KVHYFU	PowerPlex® Fusion 6C (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
KZCW88	GlobalFiler™ (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
KZN638	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
L7BEPB	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
LBR3J2	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
LRD4G8	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		

TABLE 1

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

## Item 3 - STR Results

LT7JLU	PowerPlex® fusion 6c (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
MG7FTJ	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
MLNHX4	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
MNR986	PowerPlex® Fusion 6C (STRMix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
MUVCTW	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
MZ2E7T	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
N4F4UF	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				

TABLE 1

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

## Item 3 - STR Results

N9C3H7	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
NLZ299	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
NP2TAY	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
NUQME7	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
NXC4G4	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
NXCWY	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
NZ32CP	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	

TABLE 1

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

## Item 3 - STR Results

NZFRXF	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
PHWTH3	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
PKYN27	Identifiler®					
		17,25		15,16	11,12	
3	10,12	12,13			10,13	9,11
	13,16	14,15.2	30,31.2		X,Y	11,12
	24				6,9.3	8,11
	16					
PWU77R	PowerPlex® Fusion 6C (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
Q4PUXF	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	Not tested
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	Not tested	6,9.3	8,11
	16,16	11	Not tested	Not tested	Not tested	
Q6MXQQ	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
Q7YRBX	Investigator® 24plex QS					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11				

TABLE 1

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

## Item 3 - STR Results

Q97W3Z	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
QCGAKY	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
QHNR3Z	GlobalFiler™ (STRmix v2.4.05)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
QMKTBN	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
QMPHPE	Identifiler® Plus					
		17,25		15,16	11,12	
3	10,12	12,13			10,13	9,11
	13,16	14,15.2	30,31.2		X,Y	11,12
	24				6,9.3	8,11
	16					
QNZF3W	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
QRZQXW	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	



TABLE 1

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

## Item 3 - STR Results

QWNFAT	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
QWTRXP	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
R4JW3B	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
RBA6TW	PowerPlex® Fusion 6c					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
RBPXEL	PowerPlex® Fusion					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
RDUYMC	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				
RFH364	GlobalFiler™ Express					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	

TABLE 1

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

## Item 3 - STR Results

RG2J3	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
RGAPQL	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
TCJEGM	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
TEJRVZ	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
TFJHBV	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
TNRRH3	verifiler plus					
	12,16.3	17,25	13,14	15,16	11,12	11,12
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16				2	
TQD4AY	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				

TABLE 1

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

## Item 3 - STR Results

TW4AAU	GlobalFiler™						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24			16,20	6,9.3	8,11
	16	11			2		
TZJFFN	PowerPlex® Fusion 5C						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24	12,12	11,15		6,9.3	8,11
	16,16	11					
UJC73L	PowerPlex® Fusion 6C						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19			
ULHW3A	GlobalFiler™						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24			16,20	6,9.3	8,11
	16	11			2		
UMBUQ4	GlobalFiler™ (STRmix)						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24			16,20	6,9.3	8,11
	16	11			2		
UTXBAL	PowerPlex® Fusion 6C (STRmix)						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19			
UTY8HV	PowerPlex® Fusion (STRmix)						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24	12	11,15		6,9.3	8,11
	16	11					

TABLE 1

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

## Item 3 - STR Results

UZ XU8B	Identifiler® PLUS					
		17,25		15,16	11,12	
3	10,12	12,13			10,13	9,11
	13,16	14,15.2	30,31.2		X,Y	11,12
	24				6,9.3	8,11
	16					
VJ3URV	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
VNXNPW	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
VY27FL	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
W4CJXK	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
W92NF9	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
W9LWFJ	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				

TABLE 1

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

## Item 3 - STR Results

WFKRMB	PowerPlex® Fusion					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
WJ2QTX	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
WNHCR	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
WQLEE8	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	-
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	-	-	16,20	6,9.3	8,11
	16	11	-	-	2	
WT7X9W	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
WVFNX2	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
WVG44R	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	

TABLE 1

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

## Item 3 - STR Results

WWBU8K	GlobalFiler™						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24			16,20	6,9.3	8,11
		16,16	11			2	
WWCRFV	PowerPlex® Fusion 6C (STRmix)						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24	12,12	11,15	16,20	6,9.3	8,11
		16,16	11	18	19		
X6ZEXX	verifiler plus						
		12,16.3	17,25	13,14	15,16	11,12	11,12
	3	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24	12,12	11,15		6,9.3	8,11
		16,16				2	
XEPVBL	GlobalFiler™						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24			16,20	6,9.3	8,11
		16	11			2	
XMFDPV	PowerPlex® Fusion 6C						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24	12	11,15	16,20	6,9.3	8,11
		16	11	18	19		
XMG44P	GlobalFiler™						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24			16,20	6,9.3	8,11
		16	11			2	
XQVBAJ	PowerPlex® 5c						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24	12,12	11,15		6,9.3	8,11
		16,16	11				

TABLE 1

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

## Item 3 - STR Results

XREZUY	GlobalFiler™						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24			16,20	6,9.3	8,11
	16	11			2		
XUZCJA	PowerPlex® Fusion 5C						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24	12,12	11,15		6,9.3	8,11
	16,16	11					
XZ76D6	PowerPlex® Fusion						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24	12,12	11,15		6,9.3	8,11
	16,16	11					
Y8KJ6V	PowerPlex® Fusion 6C						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19			
YHK9NH	Investigator® 24plex						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24			16,20	6,9.3	8,11
	16,16	11					
YNATRX	GlobalFiler™ (STRmix)						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24			16,20	6,9.3	8,11
	16	11			2		
YWLBJP	PowerPlex® Fusion 6C						
		12,16.3	17,25	13,14	15,16	11,12	
	3	10,12	12,13	13,13	18,20	10,13	9,11
		13,16	14,15.2	30,31.2	11,15	X,Y	11,12
		24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19			

TABLE 1

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

## Item 3 - STR Results

Z37Z9R	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24	12	11,15	16,20	6,9.3	8,11
	16	11	18	19		
Z8U8JR	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
ZEEBQU	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	
ZGJVGF	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
ZGPGLP	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
ZHZT9F	PowerPlex® Fusion 5C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15		6,9.3	8,11
	16,16	11				
ZKJ8CF	Investigator® 24plex					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11				



TABLE 1

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

## Item 3 - STR Results

ZN3PMQ	GlobalFiler™ (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
ZXDR9R	GlobalFiler™ (STRmix)					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24			16,20	6,9.3	8,11
	16	11			2	
ZYPZ4R	PowerPlex® Fusion 6C					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24	12,12	11,15	16,20	6,9.3	8,11
	16,16	11	18	19		
ZZ4XPH	GlobalFiler™					
	12,16.3	17,25	13,14	15,16	11,12	
3	10,12	12,13	13,13	18,20	10,13	9,11
	13,16	14,15.2	30,31.2	11,15	X,Y	11,12
	24,24			16,20	6,9.3	8,11
	16,16	11			2	

TABLE 1

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

## Item 4 - STR Results

23Y9V2	Identifiler®, Investigator® 24plex QS					
	15,18.3	17,23	11,14	15,15	11,12	N/A
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	N/A	N/A	22.2,33.2	8,9	8,8
	15,16	10	N/A	N/A	N/A	
27496U	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
2FP24P	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
2JNBFC	PowerPlex® 21 (STRmix 2.7.0)					
	15,18.3	17,23		15,15	11,12	11,17
4	10,10	14,14		15,20	9,12	11,11
	15,20	12,13	28,32		X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16					
38TUBQ	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
394YPE	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
3AYRUQ	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		

TABLE 1

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

## Item 4 - STR Results

3BAUFP	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
3GHH9D	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
3PNPND	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
47CRT2	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
4DBA8D	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
4DC8GN	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
4GBK4D	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	

TABLE 1

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

## Item 4 - STR Results

4HNPNC	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
4M287T	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
4V96RB	PowerPlex® Fusion 5c					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	Not Tested	8,9	8,8
	15,16	10			Not Tested	
4WNRJJ	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
4Y9FNB	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
66GJ6H	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
6B2WDC	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				

TABLE 1

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

## Item 4 - STR Results

6E287Q	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
6EKEMM	GlobalFiler™ (STRmix)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
6GCHCN	PowerPlex® Fusion 6C (STRmix)					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
6KQCQZ	Identifiler®, Investigator® 24plex QS					
	15,18.3	17,23	11,14	15,15	11,12	N/A
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	N/A	N/A	22.2,33.2	8,9	8,8
	15,16	10	N/A	N/A	N/A	
6N8KEY	PowerPlex® 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
6WLY7Q	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
72BV8L	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		

TABLE 1

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

## Item 4 - STR Results

72DX7J	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
742WDA	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
74GTPM	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
7KPXYK	GlobalFiler™ (STRmix)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
7PUBNP	PowerPlex® 16HS					
				15,15	11,12	
4	10,10	14,14			9,12	11,11
	15,20		28,32		X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16					
7QVC4B	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
7UVFWH	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		

TABLE 1

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

## Item 4 - STR Results

7V7LUJ	PowerPlex® Fusion (STRmix 2.6.3)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				
89BZUG	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
8HEEB9	PowerPlex® Fusion 6C (STRmix)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
8QPGWA	PowerPlex® Fusion 6C (STRmix)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
8VYUE9	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
9EAJCK	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
9GZKH9	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				

TABLE 1

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

## Item 4 - STR Results

9HQE7H	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				
9JPGX8	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	N/A
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14	N/A	
9JYNWU	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
9ZAAFJ	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
A2ZULF	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
A6G3AF	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
A6HKYK	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	



TABLE 1

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

## Item 4 - STR Results

A7AHDJ	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
A9JXTH	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
A9KN9D	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
AAEEC8	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
AELAPF	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
AEN6N9	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
AHKLKE	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	

TABLE 1

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

## Item 4 - STR Results

AYYKZD	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
BFXT36	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
BMZA6C	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
BQEQEF	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
C2TXGG	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
C76DXD	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
C9W6C6	PowerPlex® Fusion 6C (STRmix)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		

TABLE 1

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

## Item 4 - STR Results

CCX97D	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
CF8QXD	PowerPlex® Fusion (STRmix)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				
CLE2BE	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
CQCDC7	PowerPlex® Fusion 6C (STRmix)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
CXB84C	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				
DA3LUF	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
DBDWXR	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	-
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	-	-	22.2,33.2	8,9	8
	15,16	10	-	-	2	

TABLE 1

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

## Item 4 - STR Results

DGHRJC	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				
DHGV83	PowerPlex® Fusion 6C (STRmix)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
DNZ7HC	PowerPlex® ESX17 fast system					
	15,18.3	17,23	11,14	15,15		
4		14,14	13,15	15,20		11,11
	15,20	12,13	28,32	11,17	X,Y	
	20,20			22.2,33.2	8,9	
	15,16					
DQQWGH	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
DTDEY3	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
DZX2KD	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				
E3V3ZZ	PowerPlex® Fusion 6C (STRmix)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		

TABLE 1

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

## Item 4 - STR Results

E9LP3F	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
EBBG8C	GlobalFiler™ (STRmix)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
ER2Y4G	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
F46CNR	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15,15	11,12	Not Tested
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	Not Tested	8,9	8,8
	15,16	10	Not Tested	15,18.3	Not Tested	
FLKD8F	verifiler plus					
	15,18.3	17,23	11,14	15,15	11,12	11,17
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16				2	
FMLDMZ	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
FRFCXP	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	-
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	-	-	22.2,33.2	8,9	8
	15,16	10	-	-	2	

TABLE 1

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

## Item 4 - STR Results

FWPNVB	GlobalFiler™ (STRmix)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
FX2ZJ2	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
FYGMA9	Investigator® 24plex QS					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10				
G8J734	PowerPlex® 16 ESI FAST					
	15,18.3	17,23	11,14	15,15		
4		14,14	13,15	15,20		11,11
	15,20	12,13	28,32	11,17	X,Y	
	20,20				8,9	
	15,16					
GGPJAE	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
GJFCXM	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
GY94G3	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	

TABLE 1

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

## Item 4 - STR Results

GYAA9D	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
H9UME9	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				
H9UZ9B	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
HE2YQ9	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	--
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	--	--	22.2,33.2	8,9	8,8
	15,16	10	--	--	2	
HLJYYD	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
HMBXDB	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
HQAAAB	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		

TABLE 1

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

## Item 4 - STR Results

HY43BV	PowerPlex® 21						
		15,18.3	17,23		15,15	11,12	11,17
	4	10,10	14,14		15,20	9,12	11,11
		15,20	12,13	28,32		X,Y	10,12
		20,20	2.2,11	10,18		8,9	8,8
	15,16						
J246MW	PowerPlex® Fusion 5C						
		15,18.3	17,23	11,14	15,15	11,12	
	4	10,10	14,14	13,15	15,20	9,12	11,11
		15,20	12,13	28,32	11,17	X,Y	10,12
		20,20	2.2,11	10,18		8,9	8,8
	15,16	10					
J7J8K8	PowerPlex® Fusion						
		15,18.3	17,23	11,14	15	11,12	
	4	10	14	13,15	15,20	9,12	11
		15,20	12,13	28,32	11,17	X,Y	10,12
		20	2.2,11	10,18		8,9	8
	15,16	10					
JCPJW8	GlobalFiler™						
		15,18.3	17,23	11,14	15,15	11,12	
	4	10,10	14,14	13,15	15,20	9,12	11,11
		15,20	12,13	28,32	11,17	X,Y	10,12
		20,20			22.2,33.2	8,9	8,8
	15,16	10			2		
JEYQ2L	GlobalFiler™						
		15,18.3	17,23	11,14	15	11,12	-
	4	10	14	13,15	15,20	9,12	11
		15,20	12,13	28,32	11,17	X,Y	10,12
		20	-	-	22.2,33.2	8,9	8
	15,16	10	-	-	2		
K323NX	GlobalFiler™						
		15,18.3	17,23	11,14	15,15	11,12	
	4	10,10	14,14	13,15	15,20	9,12	11,11
		15,20	12,13	28,32	11,17	X,Y	10,12
		20,20			22.2,33.2	8,9	8,8
	15,16	10			2		
K7HP23	GlobalFiler™						
		15,18.3	17,23	11,14	15	11,12	
	4	10	14	13,15	15,20	9,12	11
		15,20	12,13	28,32	11,17	X,Y	10,12
		20			22.2,33.2	8,9	8
	15,16	10			2		



TABLE 1

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

## Item 4 - STR Results

K7YQ3J	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
K89WHT	Identifiler® Plus					
		17,23		15,15	11,12	
4	10,10	14,14			9,12	11,11
	15,20	12,13	28,32		X,Y	10,12
	20,20				8,9	8,8
	15,16					
KBCJY4	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
KGDFPA	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
KJMLK6	GlobalFiler™ (STRMIX)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
KKYX8V	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
KM9FFJ	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				

TABLE 1

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

## Item 4 - STR Results

KPRUGY	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
KVHYFU	PowerPlex® Fusion 6C (STRmix)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
KZCW88	GlobalFiler™ (STRmix)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
KZN638	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
L7BEPB	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
LBR3J2	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
LRD4G8	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		

TABLE 1

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

## Item 4 - STR Results

LT7JLU	PowerPlex® fusion 6c (STRmix)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
MG7FTJ	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
MLNHX4	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
MNR986	PowerPlex® Fusion 6C (STRMix)					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
MUVCTW	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
MZ2E7T	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
N4F4UF	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				

TABLE 1

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

## Item 4 - STR Results

N9C3H7	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
NLZ299	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
NP2TAY	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
NUQME7	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
NXC4G4	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
NXCWY	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
NZ32CP	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	

TABLE 1

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

## Item 4 - STR Results

NZFRXF	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
PHWTH3	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
PKYN27	Identifiler®					
		17,23		15	11,12	
4	10	14			9,12	11
	15,20	12,13	28,32		X,Y	10,12
	20				8,9	8
	15,16					
PWU77R	PowerPlex® Fusion 6C (STRmix)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
Q4PUXF	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	Not tested
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	Not tested	8,9	8,8
	15,16	10	Not tested	Not tested	Not tested	
Q6MXQQ	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
Q7YRBX	Investigator® 24plex QS					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10				

TABLE 1

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

## Item 4 - STR Results

Q97W3Z	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
QCGAKY	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
QHNR3Z	GlobalFiler™ (STRmix v2.4.05)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
QMKTBN	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
QMPHPE	Identifiler® Plus					
		17,23		15	11,12	
4	10	14			9,12	11
	15,20	12,13	28,32		X,Y	10,12
	20				8,9	8
	15,16					
QNZF3W	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
QRZQXW	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	

TABLE 1

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

## Item 4 - STR Results

QWNFAT	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
QWTRXP	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
R4JW3B	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
RBA6TW	PowerPlex® Fusion 6c					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
RBPXEL	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
RDUYMC	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				
RFH364	GlobalFiler™ Express					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	

TABLE 1

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

## Item 4 - STR Results

RG2J3	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
RGAPQL	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
TCJEGM	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
TEJRVZ	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
TFJHBV	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
TNRRH3	verifiler plus					
	15,18.3	17,23	11,14	15,15	11,12	11,17
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16				2	
TQD4AY	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				



TABLE 1

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

## Item 4 - STR Results

TW4AAU	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
TZJFFN	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
UJC73L	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
ULHW3A	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
UMBUQ4	GlobalFiler™ (STRmix)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
UTXBAL	PowerPlex® Fusion 6C (STRmix)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
UTY8HV	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18		8,9	8
	15,16	10				

TABLE 1

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

## Item 4 - STR Results

UZ XU8B	Identifiler® PLUS					
		17,23		15	11,12	
4	10	14			9,12	11
	15,20	12,13	28,32		X,Y	10,12
	20				8,9	8
	15,16					
VJ3URV	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
VNXNPW	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
VY27FL	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
W4CJXK	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
W92NF9	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
W9LWFJ	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				

TABLE 1

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

## Item 4 - STR Results

WFKRMB	PowerPlex® Fusion					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
WJ2QTX	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
WNHCR	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
WQLEE8	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	-
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	-	-	22.2,33.2	8,9	8
	15,16	10	-	-	2	
WT7X9W	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
WVFNX2	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
WVG44R	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	

TABLE 1

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

## Item 4 - STR Results

WWBU8K	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
WWCRFV	PowerPlex® Fusion 6C (STRmix)					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
X6ZEXX	verifiler plus					
	15,18.3	17,23	11,14	15,15	11,12	11,17
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16				2	
XEPVBL	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
XMGDPU	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
XMG44P	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
XQVBAJ	PowerPlex® 5c					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				

TABLE 1

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

## Item 4 - STR Results

XREZUY	GlobalFiler™					
		15,18.3	17,23	11,14	15	11,12
	4	10	14	13,15	15,20	9,12 11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20			22.2,33.2	8,9 8
		15,16	10			2
XUZCJA	PowerPlex® Fusion 5C					
		15,18.3	17,23	11,14	15,15	11,12
	4	10,10	14,14	13,15	15,20	9,12 11,11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20,20	2.2,11	10,18		8,9 8,8
		15,16	10			
XZ76D6	PowerPlex® Fusion					
		15,18.3	17,23	11,14	15,15	11,12
	4	10,10	14,14	13,15	15,20	9,12 11,11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20,20	2.2,11	10,18		8,9 8,8
		15,16	10			
Y8KJ6V	PowerPlex® Fusion 6C					
		15,18.3	17,23	11,14	15,15	11,12
	4	10,10	14,14	13,15	15,20	9,12 11,11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20,20	2.2,11	10,18	22.2,33.2	8,9 8,8
		15,16	10	17	14	
YHK9NH	Investigator® 24plex					
		15,18.3	17,23	11,14	15,15	11,12
	4	10,10	14,14	13,15	15,20	9,12 11,11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20,20			22.2,33.2	8,9 8,8
		15,16	10			
YNATRX	GlobalFiler™ (STRmix)					
		15,18.3	17,23	11,14	15	11,12
	4	10	14	13,15	15,20	9,12 11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20			22.2,33.2	8,9 8
		15,16	10			2
YWLBJP	PowerPlex® Fusion 6C					
		15,18.3	17,23	11,14	15,15	11,12
	4	10,10	14,14	13,15	15,20	9,12 11,11
		15,20	12,13	28,32	11,17	X,Y 10,12
		20,20	2.2,11	10,18	22.2,33.2	8,9 8,8
		15,16	10	17	14	

TABLE 1

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

## Item 4 - STR Results

Z37Z9R	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20	2.2,11	10,18	22.2,33.2	8,9	8
	15,16	10	17	14		
Z8U8JR	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
ZEEBQU	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	
ZGJVGF	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
ZGPGLP	GlobalFiler™					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
ZHZT9F	PowerPlex® Fusion 5C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18		8,9	8,8
	15,16	10				
ZKJ8CF	Investigator® 24plex					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10				

TABLE 1

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

## Item 4 - STR Results

ZN3PMQ	GlobalFiler™ (STRmix)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
ZXDR9R	GlobalFiler™ (STRmix)					
	15,18.3	17,23	11,14	15	11,12	
4	10	14	13,15	15,20	9,12	11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20			22.2,33.2	8,9	8
	15,16	10			2	
ZYPZ4R	PowerPlex® Fusion 6C					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20	2.2,11	10,18	22.2,33.2	8,9	8,8
	15,16	10	17	14		
ZZ4XPH	GlobalFiler™					
	15,18.3	17,23	11,14	15,15	11,12	
4	10,10	14,14	13,15	15,20	9,12	11,11
	15,20	12,13	28,32	11,17	X,Y	10,12
	20,20			22.2,33.2	8,9	8,8
	15,16	10			2	

# YSTR Amplification Kit(s) & Results

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 1 - YSTR Results</b>									
23Y9V2	Yfiler™								
	N/A	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	N/A	15	16	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	11
27496U	PowerPlex® Y 23								
		14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19		15	16		24
		12	12	18	19		23	10	11
299JUM	Yfiler™ Plus								
	37	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	30	15	16	10	24
	38	12		18	19	21	23		11
2LXJKP	Yfiler™ Plus								
	37	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	30	15	16	10	24
	38	12		18	19	21	23		11
3AYRUQ	Yfiler™								
		14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19		15	16		
							23		11
4GBK4D	Yfiler™								
		14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19		15	16		
							23		11
4WNRJJ	Yfiler™ Plus								
	37	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	30	15	16	10	24
	38	12		18	19	21	23		11
66GJ6H	Yfiler™ Plus								
	37	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	30	15	16	10	24
	38	12		18	19	21	23		11
6JF9KN	Yfiler™ Plus								
	37	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	30	15	16	10	24
	38	12		18	19	21	23		11
6KQCQZ	Yfiler™								
	N/A	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	N/A	15	16	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	11
6WLY7Q	PowerPlex® Y 23								
		14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19		15	16		24
		12	12	18	19		23	10	11
74GTPM	Yfiler™								
		14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19		15	16		
							23		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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 1 - YSTR Results</b>										
7PUBNP	PowerPlex® Y Y23									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
7V7LUJ	Yfiler™ Plus									
		37	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	30	15	16	10	24	
		38	12		18	19	21	23		11
8HEEB9	PowerPlex® Y Y23									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
8QPGWA	PowerPlex® Y Y23									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
9HQE7H	Yfiler™ Plus									
		37	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	30	15	16	10	24	
		38	12		18	19	21	23		11
9JPGX8	Yfiler™									
		N/A	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	N/A	15	16	N/A	N/A	
		N/A	N/A	N/A	N/A	N/A	23	N/A	11	
9ZAAFJ	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16			
							23		11	
A6HKYK	PowerPlex® Y Y23									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
A9JXTH	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16			
							23		11	
A9KN9D	Yfiler™ Plus									
		37	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	30	15	16	10	24	
		38	12		18	19	21	23		11
AYYKZD	Yfiler™ Plus									
		37	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	30	15	16	10	24	
		38	12		18	19	21	23		11
BMZA6C	Yfiler™ Plus									
		37	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	30	15	16	10	24	
		38	12		18	19	21	23		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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 1 - YSTR Results</b>										
C9W6C6	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
CCX97D	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
CF8QXD	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
CQCDC7	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
DBDWXR	Yfiler™									
	-	14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19	-	15	16	-	-	
	-	-	-	-	-	-	23	-	11	
DGHRJC	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
DZX2KD	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
ER2Y4G	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
FKV88A	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
FMLDMZ	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16			
							23		11	
FRFCXP	Yfiler™									
	-	14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19	-	15	16	-	-	
	-	-	-	-	-	-	23	-	11	
GJFCXM	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 1 - YSTR Results</b>									
GY94G3	Yfiler™ Plus								
	37	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	30	15	16	10	24
	38	12		18	19	21	23		11
H9UME9	Yfiler™ Plus								
	37	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	30	15	16	10	24
	38	12		18	19	21	23		11
HLJYYD	PowerPlex® Y								
		14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19		15	16		24
		12	12	18	19		23	10	11
J7J8K8	Yfiler™ Plus								
	37	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	30	15	16	10	24
	38	12		18	19	21	23		11
JEYQ2L	Yfiler™								
	-	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	-	15	16	-	-
	-	-	-	-	-	-	23	-	11
K7HP23	Yfiler™ Plus								
	37	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	30	15	16	10	24
	38	12		18	19	21	23		11
KGDFPA	PowerPlex® Y 23								
		14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19		15	16		24
		12	12	18	19		23	10	11
KPRUGY	Yfiler™ Plus								
	37	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	30	15	16	10	24
	38	12		18	19	21	23		11
L7BEPB	Yfiler™								
		14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19		15	16		
							23		11
LBR3J2	Yfiler™ Plus								
	37	14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19	30	15	16	10	24
	38	12		18	19	21	23		11
MG7FTJ	PowerPlex® Y 23								
		14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19		15	16		24
		12	12	18	19		23	10	11
MLNHX4	Yfiler™								
		14	12,13	13	29,30	23	11	13	13
1	15,16	12	10,11	19		15	16		
							23		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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 1 - YSTR Results

MNR986	PowerPlex® Y 23								
		14	12,13	13		23	11	13	13
1		12		19		15	16		24
		12	12	18	19		23	10	11
MUVCTW	Yfiler™ Plus								
		37	14	12,13	13	29,30	23	11	13
1		15,16	12	10,11	19	30	15	16	10
		38	12		18	19	21	23	11
NP2TAY	Yfiler™ Plus								
		37	14	12,13	13	29,30	23	11	13
1		15,16	12	10,11	19	30	15	16	10
		38	12		18	19	21	23	11
NXCWVY	Yfiler™ Plus								
		37	14	12,13	13	29,30	23	11	13
1		15,16	12	10,11	19	30	15	16	10
		38	12		18	19	21	23	11
PWU77R	PowerPlex® Y 23								
		14	12,13	13	29,30	23	11	13	13
1		15,16	12	10,11	19	15	16		24
		12	12	18	19		23	10	11
QMPHPE	Yfiler™								
		14	12,13	13	29,30	23	11	13	13
1		15,16	12	10,11	19	15	16		
							23		11
QNZF3W	Yfiler™ Plus								
		37	14	12,13	13	29,30	23	11	13
1		15,16	12	10,11	19	30	15	16	10
		38	12		18	19	21	23	11
QPV3EZ	Yfiler™ Plus								
		37	14	12,13	13	29,30	23	11	13
1		15,16	12	10,11	19	30	15	16	10
		38	12		18	19	21	23	11
QRZQXW	Yfiler™ Plus								
		37	14	12,13	13	29,30	23	11	13
1		15,16	12	10,11	19	30	15	16	10
		38	12		18	19	21	23	11
QWNFAT	Yfiler™ Plus								
		37	14	12,13	13	29,30	23	11	13
1		15,16	12	10,11	19	30	15	16	10
		38	12		18	19	21	23	11
TCJEGM	Yfiler™								
		14	12,13	13	29,30	23	11	13	13
1		15,16	12	10,11	19	15	16		
							23		11
TFJHBV	Yfiler™ Plus								
		37	14	12,13	13	29,30	23	11	13
1		15,16	12	10,11	19	30	15	16	10
		38	12		18	19	21	23	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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 1 - YSTR Results</b>										
TW4AAU	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
UTY8HV	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
UZ XU8B	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16			
							23		11	
V7MPQU	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
WNHHCR	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16			
							23		11	
WQLEE8	Yfiler™									
	-	14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19	-	15	16	-	-	
	-	-	-	-	-	-	23	-	11	
WVFNX2	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
WWBU8K	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16			
							23		11	
WWCRFV	PowerPlex® Y 23									
		14	12,13	13		23	11	13	13	
1		12		19		15	16		24	
		12	12	18	19		23	10	11	
XEPVBL	Yfiler™ plus									
	37	14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
XLP6PR	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
XMG44P	Yfiler™ PLUS									
	37	14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 1 - YSTR Results</b>										
XQVBAJ	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
XUZCJA	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
XXX9Q	PP Fusion 5C									
							11			
1										
YBHMRT	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19	30	15	16	10	24	
	38	12	N/A	18	19	21	23	N/A	11	
YHK9NH	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
ZEEBQU	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
ZGPGLP	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
ZYPZ4R	PowerPlex® Y									
1										
ZZ4XPH	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
1	15,16	12	10,11	19		15	16			
							23		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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
23Y9V2	Yfiler™									
	N/A	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	N/A	15	17	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	
27496U	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
299JUM	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
2LXJKP	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
3AYRUQ	Yfiler™									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17			
							23		12	
4GBK4D	Yfiler™									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17			
							23		12	
4WNRJJ	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
66GJ6H	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
6JF9KN	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
6KQCQZ	Yfiler™									
	N/A	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	N/A	15	17	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	
6WLY7Q	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
74GTPM	Yfiler™									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17			
							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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
7PUBNP	PowerPlex® Y Y23									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
7V7LUJ	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
8HEEB9	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
8QPGWA	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
9HQE7H	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
9JPGX8	Yfiler™									
	N/A	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	N/A	15	17	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	
9ZAAFJ	Yfiler™									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17			
							23		12	
A6HKYK	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
A9JXTH	Yfiler™									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17			
							23		12	
A9KN9D	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
AYYKZD	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
BMZA6C	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	



TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 2 - YSTR Results

C9W6C6	PowerPlex® Y 23								
		15	17,20	13	30	20	10	11	13
	2	14	11	13	21	15	17		27
		11	11	17	14		23	13	12
CCX97D	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
	2	14	11	13	21	31	15	17	10
	41	11		17	14	18	23		12
CF8QXD	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
	2	14	11	13	21	31	15	17	10
	41	11		17	14	18	23		12
CQCDC7	PowerPlex® Y 23								
		15	17,20	13	30	20	10	11	13
	2	14	11	13	21	15	17		27
		11	11	17	14		23	13	12
DBDWXR	Yfiler™								
	-	15	17,20	13	30	20	10	11	13
	2	14	11	13	21	-	15	17	-
	-	-	-	-	-	-	23	-	12
DGHRJC	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
	2	14	11	13	21	31	15	17	10
	41	11		17	14	18	23		12
DZX2KD	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
	2	14	11	13	21	31	15	17	10
	41	11		17	14	18	23		12
ER2Y4G	PowerPlex® Y 23								
		15	17,20	13	30	20	10	11	13
	2	14	11	13	21	15	17		27
		11	11	17	14		23	13	12
FKV88A	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
	2	14	11	13	21	31	15	17	10
	41	11		17	14	18	23		12
FMLDMZ	Yfiler™								
		15	17,20	13	30	20	10	11	13
	2	14	11	13	21	15	17		
						23		12	
FRFCXP	Yfiler™								
	-	15	17,20	13	30	20	10	11	13
	2	14	11	13	21	-	15	17	-
	-	-	-	-	-	-	23	-	12
GJFCXM	PowerPlex® Y 23								
		15	17,20	13	30	20	10	11	13
	2	14	11	13	21	15	17		27
		11	11	17	14		23	13	12

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
GY94G3	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
H9UME9	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
HLJYYD	PowerPlex® Y									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
J7J8K8	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
JEYQ2L	Yfiler™									
	-	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	-	15	17	-	-	
	-	-	-	-	-	-	23	-	12	
K7HP23	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
KGDFPA	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
KPRUGY	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
L7BEPB	Yfiler™									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17		12	
							23		12	
LBR3J2	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
MG7FTJ	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
MLNHX4	Yfiler™									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17		12	
							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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 2 - YSTR Results

MNR986	PowerPlex® Y 23								
		15	17,20	13	30	20	10	11	13
2	14	11	13	21		15	17		27
		11	11	17	14		23	13	12
MUVCTW	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
2	14	11	13	21	31	15	17	10	27
	41	11		17	14	18	23		12
NP2TAY	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
2	14	11	13	21	31	15	17	10	27
	41	11		17	14	18	23		12
NXCWVY	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
2	14	11	13	21	31	15	17	10	27
	41	11		17	14	18	23		12
PWU77R	PowerPlex® Y 23								
		15	17,20	13	30	20	10	11	13
2	14	11	13	21		15	17		27
		11	11	17	14		23	13	12
QMPHPE	Yfiler™								
		15	17,20	13	30	20	10	11	13
2	14	11	13	21		15	17		27
							23		12
QNZF3W	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
2	14	11	13	21	31	15	17	10	27
	41	11		17	14	18	23		12
QPV3EZ	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
2	14	11	13	21	31	15	17	10	27
	41	11		17	14	18	23		12
QRZQXW	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
2	14	11	13	21	31	15	17	10	27
	41	11		17	14	18	23		12
QWNFAT	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
2	14	11	13	21	31	15	17	10	27
	41	11		17	14	18	23		12
TCJEGM	Yfiler™								
		15	17,20	13	30	20	10	11	13
2	14	11	13	21		15	17		27
							23		12
TFJHBV	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
2	14	11	13	21	31	15	17	10	27
	41	11		17	14	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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 2 - YSTR Results

TW4AAU	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
	14	11	13	21	31	15	17	10	27
2	41	11		17	14	18	23		12
UTY8HV	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
	14	11	13	21	31	15	17	10	27
2	41	11		17	14	18	23		12
UZ XU8B	Yfiler™								
		15	17,20	13	30	20	10	11	13
	14	11	13	21		15	17		
2						23			12
V7MPQU	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
	14	11	13	21	31	15	17	10	27
2	41	11		17	14	18	23		12
WNHHCR	Yfiler™								
		15	17,20	13	30	20	10	11	13
	14	11	13	21		15	17		
2						23			12
WQLEE8	Yfiler™								
	-	15	17,20	13	30	20	10	11	13
	14	11	13	21	-	15	17	-	-
2	-	-	-	-	-	-	23	-	12
WVFNX2	PowerPlex® Y 23								
		15	17,20	13	30	20	10	11	13
	14	11	13	21		15	17		27
2		11	11	17	14		23	13	12
WWBU8K	Yfiler™								
		15	17,20	13	30	20	10	11	13
	14	11	13	21		15	17		
2						23			12
WWCRFV	PowerPlex® Y 23								
		15	17,20	13	30	20	10	11	13
	14	11	13	21		15	17		27
2		11	11	17	14		23	13	12
XEPVBL	Yfiler™ plus								
	36,40	15	17,20	13	30	20	10	11	13
	14	11	13	21	31	15	17	10	27
2	41	11		17	14	18	23		12
XLP6PR	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
	14	11	13	21	31	15	17	10	27
2	41	11		17	14	18	23		12
XMG44P	Yfiler™ PLUS								
	36,40	15	17,20	13	30	20	10	11	13
	14	11	13	21	31	15	17	10	27
2	41	11		17	14	18	23		12

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
XUZCJA	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
XXX9Q	PPFusion 5C									
							10			
2										
YBHMRT	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	31	15	17	10	27	
	41	11	N/A	17	14	18	23	N/A	12	
YHK9NH	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
ZEEBQU	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
ZGPGLP	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
2	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
ZZ4XPH	Yfiler™									
		15	17,20	13	30	20	10	11	13	
2	14	11	13	21		15	17			
							23		12	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 3 - YSTR Results</b>										
23Y9V2	Yfiler™									
	N/A	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	N/A	15	16	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	11	
27496U	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
3AYRUQ	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16			
							23		11	
4GBK4D	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16			
							23		11	
4WNRJJ	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
66GJ6H	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
6KQCQZ	Yfiler™									
	N/A	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	N/A	15	16	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	11	
6WLY7Q	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
74GTPM	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16			
							23		11	
7PUBNP	PowerPlex® Y Y23									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
7QVC4B	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16			
							23		11	
7UVFWH	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16			
							23		11	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 3 - YSTR Results</b>										
7V7LUJ	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
89BZUG	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16			
							23		11	
8HEEB9	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
8QPGWA	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
8VYUE9	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16			
							23		11	
9HQE7H	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
9JPGX8	Yfiler™									
	N/A	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	N/A	15	16	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	11	
9ZAAFJ	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16			
							23		11	
A6HKYK	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
A9JXTH	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16			
							23		11	
A9KN9D	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
AAEEC8	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16			
							23		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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 3 - YSTR Results</b>										
AYYKZD	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
BMZA6C	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
C9W6C6	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
CCX97D	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
CF8QXD	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
CQCDC7	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
DBDWXR	Yfiler™									
	-	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	-	15	16	-	-	
	-	-	-	-	-	-	23	-	11	
DGHRJC	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
DZX2KD	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
ER2Y4G	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
FMLDMZ	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16			
							23		11	
FRFCXP	Yfiler™									
	-	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	-	15	16	-	-	
	-	-	-	-	-	-	23	-	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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 3 - YSTR Results</b>										
GJFCXM	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
GY94G3	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
H9UME9	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
HLJYYD	PowerPlex® Y									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
J7J8K8	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
JEYQ2L	Yfiler™									
	-	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	-	15	16	-	-	
	-	-	-	-	-	-	23	-	11	
K7HP23	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
KGDFPA	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
KPRUGY	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
L7BEPB	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16			
							23		11	
LBR3J2	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
MG7FTJ	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 3 - YSTR Results</b>										
MLNHX4	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16			
							23			11
MNR986	PowerPlex® Y 23									
		14	12,13	13		23	11	13	13	
3		12		19		15	16		24	
		12	12	18	19		23	10	11	
MUVCTW	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23			11
NP2TAY	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23			11
NXCWVY	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23			11
PWU77R	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
QMPHPE	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16			
							23			11
QNZF3W	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23			11
QRZQXW	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23			11
QWNFAT	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23			11
QWTRXP	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16			
							23			11
RBA6TW	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16			
							23			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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 3 - YSTR Results

TCJEGM	Yfiler™								
		14	12,13	13	29,30	23	11	13	13
	3	15,16	12	10,11	19		15	16	
							23		11
TFJHBV	Yfiler™ Plus								
		37	14	12,13	13	29,30	23	11	13
	3	15,16	12	10,11	19	30	15	16	10
		38	12		18	19	21	23	11
TW4AAU	Yfiler™ Plus								
		37	14	12,13	13	29,30	23	11	13
	3	15,16	12	10,11	19	30	15	16	10
		38	12		18	19	21	23	11
UJC73L	Yfiler™								
		14	12,13	13	29,30	23	11	13	13
	3	15,16	12	10,11	19		15	16	
							23		11
UTY8HV	Yfiler™ Plus								
		37	14	12,13	13	29,30	23	11	13
	3	15,16	12	10,11	19	30	15	16	10
		38	12		18	19	21	23	11
UZ XU8B	Yfiler™								
		14	12,13	13	29,30	23	11	13	13
	3	15,16	12	10,11	19		15	16	
							23		11
WNHHCRCR	Yfiler™								
		14	12,13	13	29,30	23	11	13	13
	3	15,16	12	10,11	19		15	16	
							23		11
WQLEE8	Yfiler™								
		-	14	12,13	13	29,30	23	11	13
	3	15,16	12	10,11	19	-	15	16	-
		-	-	-	-	-	23	-	11
WVFNX2	PowerPlex® Y 23								
		14	12,13	13	29,30	23	11	13	13
	3	15,16	12	10,11	19		15	16	24
		12	12	18	19		23	10	11
WWBU8K	Yfiler™								
		14	12,13	13	29,30	23	11	13	13
	3	15,16	12	10,11	19		15	16	
							23		11
WWCRFV	PowerPlex® Y 23								
		14	12,13	13		23	11	13	13
	3	12		19		15	16	24	
		12	12	18	19		23	10	11
XEPVBL	Yfiler™ plus								
		37	14	12,13	13	29,30	23	11	13
	3	15,16	12	10,11	19	30	15	16	10
		38	12		18	19	21	23	11

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 3 - YSTR Results</b>										
XMG44P	Yfiler™ PLUS									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
XQVBAJ	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
XUZCJA	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
YHK9NH	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
YWLBJP	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16			
							23		11	
ZEEBQU	PowerPlex® Y 23									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16		24	
		12	12	18	19		23	10	11	
ZGPGLP	Yfiler™ Plus									
	37	14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19	30	15	16	10	24	
	38	12		18	19	21	23		11	
ZZ4XPH	Yfiler™									
		14	12,13	13	29,30	23	11	13	13	
3	15,16	12	10,11	19		15	16			
							23		11	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 4 - YSTR Results</b>										
23Y9V2	Yfiler™									
	N/A	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	N/A	15	17	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	
27496U	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
3AYRUQ	Yfiler™									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17			
							23		12	
4GBK4D	Yfiler™									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17			
							23		12	
4WNRJJ	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
66GJ6H	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
6KQCQZ	Yfiler™									
	N/A	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	N/A	15	17	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	
6WLY7Q	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
74GTPM	Yfiler™									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17			
							23		12	
7PUBNP	PowerPlex® Y Y23									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
7QVC4B	Yfiler™									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17			
							23		12	
7UVFWH	Yfiler™									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17			
							23		12	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 4 - YSTR Results</b>										
7V7LUJ	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
89BZUG	Yfiler™									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17			
							23		12	
8HEEB9	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
8QPGWA	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
8VYUE9	Yfiler™									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17			
							23		12	
9HQE7H	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
9JPGX8	Yfiler™									
	N/A	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	N/A	15	17	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A	12	
9ZAAFJ	Yfiler™									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17			
							23		12	
A6HKYK	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
A9JXTH	Yfiler™									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17			
							23		12	
A9KN9D	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
AAEEC8	Yfiler™									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17			
							23		12	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 4 - YSTR Results</b>										
AYYKZD	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
BMZA6C	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
C9W6C6	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
CCX97D	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
CF8QXD	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
CQCDC7	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
DBDWXR	Yfiler™									
	-	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	-	15	17	-	-	
	-	-	-	-	-	-	23	-	12	
DGHRJC	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
DZX2KD	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
ER2Y4G	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
FMLDMZ	Yfiler™									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17			
							23		12	
FRFCXP	Yfiler™									
	-	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	-	15	17	-	-	
	-	-	-	-	-	-	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	
Item	DYS18	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 4 - YSTR Results</b>										
GJFCXM	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
GY94G3	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
H9UME9	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
HLJYYD	PowerPlex® Y									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
J7J8K8	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
JEYQ2L	Yfiler™									
	-	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	-	15	17	-	-	
	-	-	-	-	-	-	23	-	12	
K7HP23	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
KGDFPA	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
KPRUGY	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
L7BEPB	Yfiler™									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17			
							23		12	
LBR3J2	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
MG7FTJ	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	



TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 4 - YSTR Results</b>										
MLNHX4	Yfiler™									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17			
							23			12
MNR986	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17		27	
		11	11	17	14		23	13		12
MUVCTW	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23			12
NP2TAY	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23			12
NXCWVY	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23			12
PWU77R	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17		27	
		11	11	17	14		23	13		12
QMPHPE	Yfiler™									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17			
							23			12
QNZF3W	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23			12
QRZQXW	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23			12
QWNFAT	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23			12
QWTRXP	Yfiler™									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17			
							23			12
RBA6TW	Yfiler™									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17			
							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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 4 - YSTR Results

TCJEGM	Yfiler™								
		15	17,20	13	30	20	10	11	13
	4	14	11 13	21		15	17		12
							23		
TFJHBV	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
	4	14	11 13	21	31	15	17	10	27
		41	11	17	14	18	23		12
TW4AAU	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
	4	14	11 13	21	31	15	17	10	27
		41	11	17	14	18	23		12
UJC73L	Yfiler™								
		15	17,20	13	30	20	10	11	13
	4	14	11 13	21		15	17		12
							23		
UTY8HV	Yfiler™ Plus								
	36,40	15	17,20	13	30	20	10	11	13
	4	14	11 13	21	31	15	17	10	27
		41	11	17	14	18	23		12
UZ XU8B	Yfiler™								
		15	17,20	13	30	20	10	11	13
	4	14	11 13	21		15	17		12
							23		
WNH HCR	Yfiler™								
		15	17,20	13	30	20	10	11	13
	4	14	11 13	21		15	17		12
							23		
WQLEE8	Yfiler™								
	-	15	17,20	13	30	20	10	11	13
	4	14	11 13	21	-	15	17	-	-
		-	-	-	-	-	23	-	12
WVFNX2	PowerPlex® Y 23								
		15	17,20	13	30	20	10	11	13
	4	14	11 13	21		15	17		27
			11 11	17	14		23	13	12
WWBU8K	Yfiler™								
		15	17,20	13	30	20	10	11	13
	4	14	11 13	21		15	17		12
							23		
WWCRFV	PowerPlex® Y 23								
		15	17,20	13	30	20	10	11	13
	4	14	11 13	21		15	17		27
			11 11	17	14		23	13	12
XEPVBL	Yfiler™ plus								
	36,40	15	17,20	13	30	20	10	11	13
	4	14	11 13	21	31	15	17	10	27
		41	11	17	14	18	23		12

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 4 - YSTR Results</b>										
XMG44P	Yfiler™ PLUS									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
XQVBAJ	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
XUZCJA	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
YHK9NH	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
YWLBJP	Yfiler™									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17			
							23		12	
ZEEBQU	PowerPlex® Y 23									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17		27	
		11	11	17	14		23	13	12	
ZGPGLP	Yfiler™ Plus									
	36,40	15	17,20	13	30	20	10	11	13	
4	14	11	13	21	31	15	17	10	27	
	41	11		17	14	18	23		12	
ZZ4XPH	Yfiler™									
		15	17,20	13	30	20	10	11	13	
4	14	11	13	21		15	17			
							23		12	

# Additional DNA Results

TABLE 3

Locus	WebCode	Item 1	Item 2	Item 3	Item 4
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No additional DNA results were reported.

# DNA Interpretations

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

TABLE 4

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
23Y9V2	Yes	No	No	Yes	4Y9FNB	Yes	No	No	Yes
27496U	Yes	No	No	Yes	66GJ6H	Yes	No	No	Yes
299JUM	No Interpretations Reported, DNA Analyzed for Database purposes only.				6B2WDC	Yes	No	No	Yes
2FP24P	Yes	No	No	Yes	6E287Q	Yes	No	No	Yes
2JNBFC	Yes	No	No	Yes	6EKEMM	Yes	No	No	Yes
2LXJKP	No Interpretations Reported, DNA Analyzed for Database purposes only.				6GCHCN	Yes	No	No	Yes
38TUBQ	Yes	No	No	Yes	6JF9KN	No Interpretations Reported, DNA Analyzed for Database purposes only.			
394YPE	Yes	No	No	Yes	6KQCQZ	Yes	No	No	Yes
3AYRUQ	Yes	No	No	Yes	6N8KEY	Yes	No	No	Yes
3BAUFP	Yes	No	No	Yes	6WLY7Q	Yes	No	No	Yes
3GHH9D	No Interpretations Reported, DNA Analyzed for Database purposes only.				72BV8L	Yes	No	No	Yes
3PNPND	Yes	No	No	Yes	72DX7J	Yes	No	No	Yes
47CRT2	Yes	No	No	Yes	73QKQJ	No Interpretations Reported, DNA Analyzed for Database purposes only.			
4DBA8D	No Interpretations Reported, DNA Analyzed for Database purposes only.				742WDA	Yes	No	No	Yes
4DC8GN	Yes	No	No	Yes	74GTPM	Yes	No	No	Yes
4GBK4D	No Interpretations Reported, DNA Analyzed for Database purposes only.				74JHW6	No Interpretations Reported, DNA Analyzed for Database purposes only.			
4HNPNC	Yes	No	No	Yes	7KPXYK	Yes	No	No	Yes
4M287T	Yes	No	No	Yes	7PUBNP	Yes	No	No	Yes
4V96RB	Yes	No	No	Yes	7QVC4B				
4WNRJJ	Yes	No	No	Yes	7UVFWH				

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
7V7LUJ	Yes	No	No	Yes	AYYKZD	Yes	No	No	Yes
89BZUG	No Interp	No Interp	No Interp	No Interp	BFXT36	Yes	No	No	Yes
8HEEB9	Yes	No	No	Yes	BMZA6C	Yes	No	No	Yes
8QPGWA	Yes	No	No	Yes	BQEQEF	Yes	No	No	Yes
8VYUE9	No Interp	No Interp	No Interp	No Interp	BTMWZG	No Interpretations Reported, DNA Analyzed for Database purposes only.			
9EAJCK	Yes	No	No	Yes	C2TXGG	Yes	No	No	Yes
9GZKH9	Yes	No	No	Yes	C76DXD	Yes	No	No	Yes
9HQE7H	Yes	No	No	Yes	C9W6C6	Yes	No	No	Yes
9JPGX8	No Interpretations Reported, DNA Analyzed for Database purposes only.				CCX97D	Yes	No	No	Yes
9JYNWU	Yes	No	No	Yes	CF8QXD	Yes	No	No	Yes
9ZAAFJ	Yes	No	No	Yes	CLE2BE	Yes	No	No	Yes
A2ZULF	Yes	No	No	Yes	CQCDC7	Yes	No	No	Yes
A6G3AF	Yes	No	No	Yes	CXB84C	Yes	No	No	Yes
A6HKYK	Yes	No	No	Yes	DA3LUF	Yes	No	No	Yes
A7AHDJ	Yes	No	No	Yes	DBDWXR	Yes	No	No	Yes
A9JXTH	Yes	No	No	Yes	DGHRJC	Yes	No	No	Yes
A9KN9D	Yes	No	No	Yes	DHGVB3	Yes	No	No	Yes
AAEEC8					DNZ7HC	Yes	No	No	Yes
AELAPF	Yes	No	No	Yes	DQQWGH	Yes	No	No	Yes
AEN6N9	Yes	No	No	Yes	DTDEY3	Yes	No	No	Yes
AHKLKE	Yes	No	No	Yes	DZX2KD	Yes	No	No	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
E3V3ZZ	Yes	No	No	Yes	HE2YQ9	Yes	No	No	Yes
E9LP3F	Yes	No	No	Yes	HLJYYD	Yes	No	No	Yes
EBBG8C	Yes	No	No	Yes	HMBXDB	Yes	No	No	Yes
ER2Y4G	Yes	No	No	Yes	HQAAAB	Yes	No	No	Yes
EWA6CD	No Interpretations Reported, DNA Analyzed for Database purposes only.				HY43BV	Yes	No	No	Yes
F46CNR	Yes	No	No	Yes	J246MW	Yes	No	No	Yes
F6JTPC	No Interpretations Reported, DNA Analyzed for Database purposes only.				J7J8K8	Yes	No	No	Yes
FKV88A	No Interpretations Reported, DNA Analyzed for Database purposes only.				JCPJW8	Yes	No	No	Yes
FLKD8F	Yes			Yes	JEYQ2L	Yes	No	No	Yes
FMLDMZ	Yes	No	No	Yes	K323NX	No Interpretations Reported, DNA Analyzed for Database purposes only.			
FRFCXP	Yes	No	No	Yes	K7HP23	Yes	No	No	Yes
FWPNVB	Yes	No	No	Yes	K7YQ3J	Yes	No	No	Yes
FX2ZJ2	Yes	No	No	Yes	K89WHT	Yes	No	No	Yes
FYGMA9	Yes	No	No	Yes	KBCJY4	Yes	No	No	Yes
G8J734	Yes	No	No	Yes	KGDFPA	Yes	No	No	Yes
GGPJAE	Yes	No	No	Yes	KJMLK6	Yes	No	No	Yes
GJFCXM	Yes	No	No	Yes	KKYX8V	Yes	No	No	Yes
GY94G3	Yes	No	No	Yes	KM9FFJ	Yes	No	No	Yes
GYAA9D	Yes	No	No	Yes	KPRUGY	Yes	No	No	Yes
H9UME9	Yes	No	No	Yes	KVHYFU	Yes	No	No	Yes
H9UZ9B	Yes	No	No	Yes	KZCW88	Yes	No	No	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
KZN638	Yes	No	No	Yes	PKYN27	Yes	No	No	Yes
L7BEPB	Yes	No	No	Yes	PWU77R	Yes	No	No	Yes
LBPKDP	No Interpretations Reported, DNA Analyzed for Database purposes only.				Q4PUXF	Yes	No	No	Yes
LBR3J2	Yes	No	No	Yes	Q6MXQQ	No Interpretations Reported, DNA Analyzed for Database purposes only.			
LRD4G8	Yes	No	No	Yes	Q7YRBX	Yes	No	No	Yes
LT7JLU	Yes	No	No	Yes	Q97W3Z	Yes	No	No	Yes
MG7FTJ	Yes	No	No	Yes	QCGAKY	Yes	No	No	Yes
MLNHX4	Yes	No	No	Yes	QHNR3Z	Yes	No	No	Yes
MNR986	Yes	No	No	Yes	QMKTBN	Yes	No	No	Yes
MUVCTW	Yes	No	No	Yes	QMPHPE	Yes	No	No	Yes
MZ2E7T	Yes	No	No	Yes	QNZF3W	Yes	No	No	Yes
N4F4UF	Yes	No	No	Yes	QPV3EZ	No Interpretations Reported, DNA Analyzed for Database purposes only.			
N9C3H7	Yes	No	No	Yes	QRZQXW	Yes	No	No	Yes
NLZ299	Yes	No	No	Yes	QWNFAT	Yes	No	No	Yes
NP2TAY	Yes	No	No	Yes	QWTRXP				
NUQME7	Yes	No	No	Yes	R4JW3B	Yes	No	No	Yes
NXC4G4	Yes	No	No	Yes	RBA6TW				
NXCWY	Yes	No	No	Yes	RBPXEL	Yes	No	No	Yes
NZ32CP	Yes	No	No	Yes	RDUYMC	Yes	No	No	Yes
NZFRXF	Yes	No	No	Yes	RFH364	Yes	No	No	Yes
PHWTH3	Yes	No	No	Yes	RGA2J3	Yes	No	No	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
RGAPQL	Yes	No	No	Yes	W92NF9	Yes	No	No	Yes
RVC36W	No Interpretations Reported, DNA Analyzed for Database purposes only.				W9LWFJ	Yes	No	No	Yes
TCJEGM	No Interpretations Reported, DNA Analyzed for Database purposes only.				WFKRMB	Yes	No	No	Yes
TEJRVZ	Yes	No	No	Yes	WJ2QTX	Yes	No	No	Yes
TFJHBV	Yes	No	No	Yes	WNHHCR	No Interpretations Reported, DNA Analyzed for Database purposes only.			
TL6K8Y	No Interpretations Reported, DNA Analyzed for Database purposes only.				WQLEE8	Yes	No	No	Yes
TNRRH3	Yes			Yes	WT7X9W	Yes	No	No	Yes
TQD4AY	Yes	No	No	Yes	WVFNX2	Yes	No	No	Yes
TW4AAU	Yes	No	No	Yes	WVG44R	Yes	No	No	Yes
TZJFFN	Yes	No	No	Yes	WWBU8K	No Interpretations Reported, DNA Analyzed for Database purposes only.			
UJC73L					WWCRFV	Yes	No	No	Yes
ULHW3A	Yes	No	No	Yes	X6ZEXX	Yes			Yes
UMBUQ4	Yes	No	No	Yes	XEPVBL	Yes	No	No	Yes
UTXBAL	Yes	No	No	Yes	XLP6PR	No Interpretations Reported, DNA Analyzed for Database purposes only.			
UTY8HV	Yes	No	No	Yes	XMFDPU	Yes	No	No	Yes
UZ XU8B	Yes	No	No	Yes	XMG44P	Yes	No	No	Yes
V7MPQU	No Interpretations Reported, DNA Analyzed for Database purposes only.				XQVBAJ	Yes	No	No	Yes
VJ3URV	Yes	No	No	Yes	XREZUY	Yes	No	No	Yes
VNXNPW	Yes	No	No	Yes	XUZCJA	Yes	No	No	Yes
VY27FL	Yes	No	No	Yes	XXX9Q	No Interpretations Reported, DNA Analyzed for Database purposes only.			
W4CJXK	Yes	No	No	Yes	XZ76D6	Yes	No	No	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
Y8KJ6V	Yes	No	No	Yes					
YBHMRT	No Interpretations Reported, DNA Analyzed for Database purposes only.								
YHK9NH	Yes	No	No	Yes					
YNATRX	Yes	No	No	Yes					
YT3DQT	No Interpretations Reported, DNA Analyzed for Database purposes only.								
YWLBJP									
Z37Z9R	Yes	No	No	Yes					
Z76B4R	No Interpretations Reported, DNA Analyzed for Database purposes only.								
Z8U8JR	Yes	No	No	Yes					
ZEEBQU	Yes	No	No	Yes					
ZGJVGF	Yes	No	No	Yes					
ZGPGLP	Yes	No	No	Yes					
ZHZT9F	Yes	No	No	Yes					
ZKJ8CF	Yes	No	No	Yes					
ZN3PMQ	Yes	No	No	Yes					
ZXDR9R	Yes	No	No	Yes					
ZYPZ4R	Yes	No	No	Yes					
ZZ4XPH	No Interpretations Reported, DNA Analyzed for Database purposes only.								

## DNA Interpretation

### Response Summary

**Participants reporting DNA results: 226**

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

	Victim (Item 1)		Suspect (Item 2)	
	<u>Item 3</u>	<u>Item 4</u>	<u>Item 3</u>	<u>Item 4</u>
Yes	<b>188</b>	<b>0</b>	<b>0</b>	<b>188</b>
No	<b>0</b>	<b>185</b>	<b>185</b>	<b>0</b>
Inc	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
No Interpretation	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
No Response	<b>7</b>	<b>10</b>	<b>10</b>	<b>7</b>

Participants analyzing DNA for database purposes only: 29

# Additional Comments

## TABLE 5

WebCode	Additional Comments
6WLY7Q	Multi-copy Y-STR markers observed in Item 1 (victim) and Item 3 at markers DYS389II, DYS437 and DYS439, as well as at the expected DYS385 markers. Results confirmed by the duplicate analysis of samples.
7PUBNP	- The blood stain on item 3 refers to the victim (item 1). - The blood stain on item 4 refers to the suspect (item 2). - Organic extraction was carried on. - Quantification using quantifiller trio kit, amplification using 16 HS powerplex kit and DNA analyzed using 3500 XL genetic analyzer.
7QVC4B	No comparison performed. [Initials] 10/15/2020.
7UVFWH	No comparisons performed [Initials] 10/30/2020
7V7LUJ	Note: 1) All data reported out in this proficiency test originate from analysis using GeneMapper ID-X. 2) Item 4 was analyzed using the STRmix 2.6.3 software, in addition to having used GeneMapper ID-X.
89BZUG	No comparison made ([Initials] 11/2/2020)
8VYUE9	No comparisons performed - [Initials] 10/26/2020
9HQE7H	The data reported in this proficiency test is from analysis using GeneMapper ID-X.
9JPGX8	No comparisons performed. [Initials] 11/5/2020
AAEEC8	No comparisons performed. [Initials] 10/19/2020
CF8QXD	All data reported out originate from analysis using GeneMapper ID-X
CLE2BE	A differential separation was performed on items 3 and 4. The sperm fraction was stopped due to no DNA. The non-sperm fraction was reported.
CQCDC7	Duplications observed in the YSTR profiles for Item 1 and Item 3.
DBDWXR	Extraction: Item 1 and Item 2 were extracted using in-situ method while Item 3 and Item 4 were extracted using DNA IQ on TECAN FREEDOM EVO 150. Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Human DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: -Item 1 and Item 2 were amplified using GlobalFiler Express Kit on ABI Proflex PCR System. -Item 3 and Item 4 were amplified using GlobalFiler Amplification Kit on ABI GeneAmp PCR System 9700. -Y-STR Amplification was carried out on Item 1, Item 2, Item 3 and Item 4 using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: -Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1 and Item 2 (GlobalFiler Express), Item 3 and Item 4 (GlobalFiler). -Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4 (Y-Filer). Quality Control: -Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
DGHRJC	All data reported originated from analysis using GeneMapper ID-X. In addition, Item 3 was analyzed with STRmix software.
DHGVB3	alleles that would be modeled as stutter (MAS) in STRmix were not included in the allele tables
DNZ7HC	Items 3 and 4 gave positive result for Leucomalachite green (LMG) test (presumptive test for blood).
DZX2KD	The data reported out in this proficiency test is from analysis using GeneMapper ID-X. STRmix deconvolution was performed on Item 3. Comparison of Item 3 to Item 1 and Item 2 was also performed using STRmix.
E3V3ZZ	Item 4 at location DYS576 had a 15 allele called. Per our policy, this allele remained on and allowed STRmix to model it as stutter to the 14 allele. The 15 will not be entered in the allele reporting table.
FLKD8F	The SE33 allele is not part of the genetic markers of the verifiler plus kit used in the laboratory.

TABLE 5

WebCode	Additional Comments
FRFCXP	Extraction: Item 1 and Item 2 were extracted using in-situ method while Item 3 and Item 4 were extracted using DNA IQ on TECAN FREEDOM EVO 150. Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Human DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: -Item 1 and Item 2 were amplified using GlobalFiler Express Kit on ABI Proflex PCR System. -Item 3 and Item 4 were amplified using GlobalFiler Casework Amplification Kit on ABI GeneAmp PCR System 9700. -Y-STR Amplification was carried out on Item 1, Item 2, Item 3 and Item 4 using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: -Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1 and Item 2 (GlobalFiler Express), Item 3 and Item 4 (GlobalFiler Casework). -Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4 (Y-Filer). Quality Control: -Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
H9UME9	All data reported is from analysis using Genemapper ID-X. Item 3 was also analyzed using the STRmix software.
J7J8K8	All reported data originates from analysis using GeneMapper ID-X
JEYQ2L	Extraction: Item 1 and Item 2 were extracted using in-situ method while Item 3 and Item 4 were extracted using DNA IQ on TECAN FREEDOM EVO 150. Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Human DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: -Item 1 and Item 2 were amplified using GlobalFiler Express Kit on ABI Proflex PCR System. -Item 3 and Item 4 were amplified using GlobalFiler Amplification Kit on ABI GeneAmp PCR System 9700. -Y-STR Amplification was carried out on Item 1, Item 2, Item 3 and Item 4 using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: -Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1 and Item 2 (GlobalFiler Express), Item 3 and Item 4 (GlobalFiler). -Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4 (Y-Filer). Quality Control: -Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
KVHYFU	There were 2 additional peaks detected in Item 4 (19 at D18S51 and 18 at D22S1045) which were modeled as stutter in STRmix and not added to the allele table for reporting purposes.
L7BEPB	mRMP item 1 = item 3 = 5,10E+28. mRMP item 2 = item 4 = 7,05E+29. Item 1 = Item 3 is a single male profile. Double alleles are due to duplication of the AZFa region followed by mutatioesn (M. Diederiche et al., 2005)
LBPKDP	DNA interpretations not reported; samples analyzed for database purposes only.
LT7JLU	Item 4—2 additional peaks detected were modeled as stutter by STRmix and not added to allele table per policy
MNR986	As per laboratory protocol, the duplicated loci for the Y-STR profiles from Known Item #1 and Questioned Item #3 (DYS389 II, DYS437, and DYS439) were reported as inconclusive and not included in this data sheet.
QMPHPE	1. Item 1 and Item 2 were extracted using in-situ method while Item 1, Item 3 and Item 4 were extracted using Chelex extraction method. 2. Item 1, Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification Kit on the Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 System. 3. Item 1 and Item 2 were amplified using AmpFLSTR Identifiler Direct PCR Amplification Kit while Item 3 and Item 4 were amplified using AmpFLSTR Identifiler Plus PCR Amplification Kit on 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification was carried out on Item 1, Item 2, Item 3 and Item 4 using AmpFLSTR Y-filer PCR Amplification kit on the 9700 GeneAmp PCR System. 4. Electrophoresis was carried out on the Applied Biosystems 3500 Genetic Analyser with GeneMapper ID-X Software for Item 1, Item 2, Item 3 and Item 4. 5. Reagent blank, positive control and negative control were analysed throughout the analysis and all gave the intended results.
QWTRXP	No comparisons performed. [Initials] 10/15/2020
RBA6TW	No comparisons performed. [Initials] 10/19/2020
TNRRH3	The SE33 allele is not part of the genetic markers of the verifiler plus kit used in the laboratory.
UJC73L	No comparisons performed. [Initials] 10/19/2020
UMBUQ4	Blank spaces in the STR results table indicate that results were not obtained at that locus.

TABLE 5

WebCode	Additional Comments
UTXBAL	Item 4: A peak at the 18 allele position was detected at D22S1045 that is being modeled as stutter in STRmix and not added to allele table per policy.
UTY8HV	The data reported out in this proficiency test is from analysis using GeneMapper ID-X.
UZ XU8B	Extraction: Item 1 and Item 2 were extracted using in-situ method while Item 3 and Item 4 were extracted using Chelex extraction method. Quantification: DNA quantitation for Item 3 and Item 4 were carried out using the Quantifiler Human DNA Quantification kit with Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 system. Amplification: Item 1 and Item 2 were amplified using AmFISTR Identifiler Direct Kit while Item 3 and Item 4 were amplified using AmFISTR Identifiler Plus kit on 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification was carried out on Item 1, Item 2, Item 3 and Item 4 using AmFISTR Y-Filer kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 1 and Item 2 (Identifiler Direct), Item 3 and Item 4 (Identifiler Plus). Electrophoresis for Y-Filer was carried out on Genetic Analyzer 3500xl for Item 1, Item 2, Item 3 and Item 4. Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
WNHHCRCR	No comparisons performed. [Initials] 10/15/2020
WQLEEB	Extraction: Item 1 and Item 2 were extracted using in-situ method while Item 3 and Item 4 were extracted using DNA IQ on TECAN FREEDOM EVO 150. Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Human DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: -Item 1 and Item 2 were amplified using GlobalFiler Express Kit on ABI Proflex PCR System . -Item 3 and Item 4 were amplified using GlobalFiler Amplification Kit on ABI GeneAmp PCR System 9700. -Y-STR Amplification was carried out on Item 1, Item 2, Item 3 and Item 4 using AmpFLSTR YFiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: -Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1 and Item 2 (GlobalFiler Express), Item 3 and Item 4 (GlobalFiler). -Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4 (Y-Filer). Quality Control: -Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
WWCRFV	Alleles at DYS389II, DYS437, and DYS439 will not be reported for Item 1 and Item 3 due to potential duplicated loci. Per our laboratory SOP, a duplicated locus will not be used for interpretation or statistics.
X6ZEXX	The SE33 allele is not part of the genetic markers of the verifiler plus kit used in the laboratory.
YWLBJP	Item #:4 A potential allele (19) that cannot be differentiated from an artifact was observed at DYS385. [Initials] 10/20/2020. No comparisons performed. [Initials] 10/20/2020

**-End of Report-**  
(Appendix may follow)

Collaborative Testing Services ~ Forensic Testing Program

**Test No. 20-5805: DNA-Blood**

DATA MUST BE SUBMITTED BY **Nov. 9, 2020, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234D

WebCode: 4JMX9A

The Accreditation Release section can be accessed by using the "Continue to Final Submission" button above. This information can be entered at any time prior to submitting to CTS.

**Scenario:**

Police are investigating the assault of a male victim. The victim was walking home from a football game, when a man he had been arguing with earlier ran up to him and punched him in the face. After a brief scuffle, the suspect ran away. Witnesses were able to identify the suspect and he was arrested the next day. Investigators are submitting a stain from a washcloth (Item 3) found in the suspect's home and the shirt (Item 4) the victim was wearing. Screening has been performed on both samples with the following results: Item 3 (washcloth) and Item 4 (victim's shirt) are both positive for blood. Also collected were known blood samples from the male victim (Item 1) and the male suspect (Item 2).

**Items Submitted (Sample Pack S5):**

Item 1: Known blood from the male victim

Item 2: Known blood from the male suspect

Item 3: Questioned blood stain from washcloth (pink)

Item 4: Questioned blood stain from victim's shirt (off-white)











### Part I (continued): DNA Analysis - Additional DNA

- Use this section to report results for loci not currently listed in other sections of the data sheet.
- Report alleles in numerical order, separated by a comma.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].
- Click "Add Row" to show another row of boxes for entry.

Locus	Item 1	Item 2	Item 3	Item 4

## 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)?

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

DNA interpretations not reported; samples analyzed for database purposes only:

## Part III: ADDITIONAL COMMENTS

- Use this section to report comments regarding any part of this test.
- Written conclusions (including statistical information) for DNA analysis are not required.
- Any interpretations based on the results obtained should be indicated in the section above.
- Note: Laboratories submitting their results for accreditation are asked to report any additional information that will assist in the review of their results. This includes an explanation of any deviations from a full completion of the test and/or unique findings such as elevated stutter.

**Please note:** Any additional formatting applied in the free form space below will not transfer to the Summary Report and may cause your information to be illegible. This includes additional spacing and returns that present your responses in lists and tabular formats.

## RELEASE OF DATA TO ACCREDITATION BODIES

The Accreditation Release is accessed by pressing the "Continue to Final Submission" button online and can be completed at any time prior to submission to CTS.

CTS submits external proficiency test data directly to ASCLD/LAB, ANAB, and/or A2LA. Please select one of the following statements to ensure your data is handled appropriately.

- This participant's data is intended for submission to ASCLD/LAB, ANAB, and/or A2LA. (Accreditation Release section below must be completed.)
- This participant's data is **not** intended for submission to ASCLD/LAB, ANAB, and/or A2LA.

Have the laboratory's designated individual complete the following steps only if your laboratory is accredited in this testing/calibration discipline by one or more of the following Accreditation Bodies.

**Step 1: Provide the applicable Accreditation Certificate Number(s) for your laboratory.**

ANAB Certificate No.   
(Include ASCLD/LAB Certificate here)

A2LA Certificate No.

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

Authorized Contact Person and Title

Laboratory Name

Location (City/State)