



## **DNA-Mixture Test No. 24-5806**

### **Summary Report**

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Each participant received a sample pack consisting of two known bloodstains and two questioned stains which they were asked to analyze using their existing protocols. Data were returned from 255 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 and 2) and two questioned stains on colored fabric (Items 3 and 4). Participants were asked to analyze these items using their existing protocols.

**SAMPLE PREPARATION:** The stains on Items 1, 2 and 4 were prepared using human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. The stain on Item 3 was prepared using a mixture of human whole blood and semen. Item 1 (75  $\mu\text{L}$ ) was created using blood from a male donor. Item 2 (75  $\mu\text{L}$ ) was created using blood from a female donor. Item 3 (50  $\mu\text{L}$ ) was created using a 1:1 mixture of blood from the female donor used in Item 2 and semen from the male donor used in Item 1. Item 4 (50  $\mu\text{L}$ ) was created using a 1:1 mixture of blood from the female donor used in Item 2 and blood from the male donor used in Item 1. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried. Completed sample packs were stored at  $-20^{\circ}\text{C}$  until shipment on October 14, 2024 following completion of the verification stage.

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

**VERIFICATION:** Predistribution results were consistent with each other and the manufacturer's preparation information. Consistent allelic results were reported for all STR and YSTR loci.

## Manufacturer's Information, continued

<b>Amelogenin and STR Results</b>						
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 black;"/>						
1	12,12	17,17	10,14	15,19	11,11	*
	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19	2	
<hr style="border-top: 1px dashed black;"/>						
2	10,13	19,23	10,14	16,19	12,13	*
	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32,2,32.2	11,16	X,X	11,13
	19,20	10,16	5,5	17,30.2	9,3,10	8,11
	16,18	NM	NM	NM	NM	
<hr style="border-top: 1px dashed black;"/>						
3-Blood	10,13	19,23	10,14	16,19	12,13	*
	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32,2,32.2	11,16	X,X	11,13
	19,20	10,16	5,5	17,30.2	9,3,10	8,11
	16,18	NM	NM	NM	NM	
<hr style="border-top: 1px dashed black;"/>						
3-Semen	12,12	17,17	10,14	15,19	11,11	*
	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19	2	
<hr style="border-top: 1px dashed black;"/>						
4	10,12,13	17,19,23	10,14	15,16,19	11,12,13	*
	8,9,10,13	10,12,13,15	14,16,17	17,3,19,3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9,3,10	8,11
	16,18	11	20	19	2	

<b>YSTR Results</b>										
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	YGATAH4	
<hr style="border-top: 1px dashed black;"/>										
1	35,35	14	11,14	13	30	24	11	13	12	
	15	12	12	19	30	15	16	11	22	
	40	12	13	20	19	20	23	10	12	
<hr style="border-top: 1px dashed black;"/>										
3-Semen	35,35	14	11,14	13	30	24	11	13	12	
	15	12	12	19	30	15	16	11	22	
	40	12	13	20	19	20	23	10	12	
<hr style="border-top: 1px dashed black;"/>										
4	35,35	14	11,14	13	30	24	11	13	12	
	15	12	12	19	30	15	16	11	22	
	40	12	13	20	19	20	23	10	12	

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

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

## Summary Comments

This test was designed to allow participants to assess their proficiency in the analysis and comparison of dried stains, where participants are advised of the body fluid(s) present in the questioned stains. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Item 1 was created using blood from a male donor. Item 2 was created using blood from a female donor. Item 3 was created using a 1:1 mixture of blood from the female donor used in Item 2 and semen from the male donor used in Item 1. Item 4 was created using a 1:1 mixture of blood from the female donor used in Item 2 and blood from the male donor used in Item 1. Refer to the Manufacturer's Information for preparation details.

### DNA Analysis

For STR results, all participants reported consistent results, with the exception of twenty-eight participants which reported an inconsistent result for one or more items. A majority of inconsistent results were identified for Item 3-Semen in which participants reported an additional "18" allele at locus D3S1358. Several participants documented this in their Additional Comments and identified the peak as an artifact or elevated stutter. A majority of participants reported the use of GlobalFiler™.

For YSTR results, all but one participant reported consistent results.

### DNA Interpretations

Of the 255 participants that returned DNA results, 231 reported DNA interpretations for one or both questioned stains. Sixteen participants selected the "No Interpretation" option for each conclusion, seven stated the samples were analyzed for database purposes only, and one did not respond.

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

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

# 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

22FFB6	GlobalFiler™	12,12	17,17	10,14	15,19	11,11
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
		16,16	11			2
243ZFA	GlobalFiler™ Express	12	17	10,14	15,19	11
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		16	11			2
26BG48	GlobalFiler™	22,22	17,17	10,14	15,19	11,11
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
		16,16	11			2
2B2PVT	PowerPlex® Fusion 6C	12,12	17,17	10,14	15,19	11,11
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21	9,9	7,17	18,18	9,9 8,8
		16,16	11	20	19	
2EMAZW	GlobalFiler™ Direct	12	17	10,14	15,19	11
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		16	11			2
2G7N4W	GlobalFiler™ Direct	12	17	10,14	15,19	11
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		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

2KMVL6	Investigator® 24plex GO!, Flex Plex 27					
	12,12	17,17	10,14	15,19	11,11	12,18
1	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	N/A	7,17	18,18	9,9	8,8
	16,16	11	N/A	19	N/A	
2V8ZYW	PowerPlex® Fusion					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17		9,9	8,8
	16,16	11				
2V9RVJ	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
2XDHZD	Investigator® 24plex					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11				
2Z6J2U	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
36VDEL	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
38Y4HF	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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

3AMFJ8	GlobalFiler™ Express					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
3DYMHQ	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
3GMYJG	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
3JB9V4	GlobalFiler™					
	9,12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
3XAFMD	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
3ZDB8G	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
43KQF8	PowerPlex® Fusion					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	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

468ER8	GlobalFiler™ (LRmix Studio)					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
46MT4N	PowerPlex® Fusion					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	inc	8,11	12,13
	12,14	inc	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
47HAFK	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
4C9LG9	PowerPlex® Fusion					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
4DEBB6	PowerPlex® Fusion 5C					
	12	17	10,14	15,19	11	--
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	--	9	8
	16	11	--	--	--	
4FMGVK	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
4HEFAJ	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	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

4JK3MN	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	N/A
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	N/A	N/A	18,18	9,9	8,8
	16,16	11	N/A	N/A	2	
4N4XPF	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
4Q42G3	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
4VY2B4	PowerPlex® Fusion 6c					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
4ZPCK3	Investigator® 24plex QS, Flex Plex					
	12,12	17,17	10,14	15,19	11,11	12,18
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	N/A	7,17	18,18	9,9	8,8
	16,16	11	INC	INC	N/A	
666YZT	GlobalFiler™ Direct					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
6BAZ2M	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	NA
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	NA	NA	18,18	9,9	8,8
	16,16	11	NA	NA	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

6DEQ7G	GlobalFiler™					
		12,12	17,17	10,14	15,19	11,11
1		8,9	10,12	14,16	19.3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
		16,16	11			2
6G63LL	GlobalFiler™ (STRmix)					
		12	17	10,14	15,19	11
1		8,9	10,12	14,16	19.3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		16	11			2
6NW8Z9	GlobalFiler™ Express					
		12	17	10,14	15,19	11
1		8,9	10,12	14,16	19.3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		16	11			2
6PKL6K	GlobalFiler™ (Euroformix)					
		12	17	10,14	15,19	11
1		8,9	10,12	14,16	19.3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		16	11			2
6QF68L	GlobalFiler™					
		12	17	10,14	15,19	11
1		8,9	10,12	14,16	19.3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		16	11			2
73DKQA	Investigator® 24plex GO! (STRMix)					
		12	17	10,14	15,19	11
1		8,9	10,12	14,16	19.3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		16	11			2
79EL83	GlobalFiler™ IQC					
		12,12	17,17	10,14	15,19	11,11
1		8,9	10,12	14,16	19.3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
		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

7A8PHP	PowerPlex® Fusion					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
7CYQLR	GlobalFiler™ Direct					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
7EL3MH	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
7HN4P2	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
7LPA3L	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
7PK6JZ	GlobalFiler™ Express					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
7QWKDZ	GlobalFiler™ Express					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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

7TL8PN	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
7Z4DQ2	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
7Z9UNZ	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
82XHHF	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
84YLA3	GlobalFiler™ Express					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
86DX4Z	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
88YW63	GlobalFiler™ Express					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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

89GNG8	GlobalFiler™					
		12,12	17,17	10,14	15,19	11,11
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
		16,16	11			2
8CFZC8	GlobalFiler™					
		12,12	17,17	10,14	15,19	11,11
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
		16,16	11			2
8CRY8G	PowerPlex® Fusion 6C					
		12	17	10,14	15,19	11
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21	9	7,17	18	9 8
		16	11	20	19	
8G7AM7	PowerPlex® Fusion					
		12	17	10,14	15,19	11
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21	9	7,17		9 8
		16	11			
8GQDTK	GlobalFiler™					
		12,12	17,17	10,14	15,19	11,11 N/A
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21	N/A	N/A	18,18	9,9 8,8
		16,16	11	N/A	N/A	2
8M9QPY	Investigator® 24plex QS					
		12,12	17,17	10,14	15,19	11,11 N/A
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21	N/A	N/A	18,18	9,9 8,8
		16,16	11	N/A	N/A	N/A
8TZQC8	PowerPlex® Fusion 6C					
		12,12	17,17	10,14	15,19	11,11
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21	9,9	7,17	18,18	9,9 8,8
		16,16	11	20	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

8V87KX	Investigator® 24plex QS					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11				
92RQ2J	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	NA
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	NA	NA	18,18	9,9	8,8
	16,16	11	NA	NA	2	
99AWZB	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
9MMFDJ	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
9N6J74	PowerPlex® Fusion 5C					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
9R3ZJX	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
9WFKR4	PowerPlex® Fusion					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	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

A4B66J	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
A4R76Z	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11,11			2	
A7YG7A	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
A944JE	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
A9R8CP	GlobalFiler™ Direct					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
AC8WFY	GlobalFiler™ Express					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
AG2VPM	GlobalFiler™ Direct					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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

AULEKC	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
AWQ4P7	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
BCRBXF	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
BL9Q3V	GlobalFiler™ Express					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
BNZJJ9	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
BQKPHV	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
BRYUE9	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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

BUC2WE	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
C62UJW	PowerPlex® Fusion 5C					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
CE7U2B	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
CEM97Y	PowerPlex® Fusion					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
CK947H	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
CLLKHW	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11,F			2,F	
CPYHNX	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	15,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11,11	20,20	19,19		

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

D2EP96	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
D37J8U	PowerPlex® Fusion 6C, GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
DAAMXT	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
DE3RNC	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
DEMBUJ	PowerPlex® Fusion					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17		9,9	8,8
	16,16	11				
DQUEWR	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
DVQZNV	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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

EANCUD	GlobalFiler™					
1	12,12	17,17	10,14	15,19	11,11	N/A
	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	N/A	N/A	18,18	9,9	8,8
	16,16	11	N/A	N/A	2	
EBEFMK	GlobalFiler™ Direct (STRmix)					
1	12	17	10,14	15,19	11	
	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
EJ9HT3	GlobalFiler™ (STRmix)					
1	12	17	10,14	15,19	11	
	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
EJQRHX	PowerPlex® Fusion					
1	12	17	10,14	15,19	11	
	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
EKMAJY	GlobalFiler™					
1	12	17	10,14	15,19	11	
	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
EMAN99	PowerPlex® Fusion 6C					
1	12	17	10,14	15,19	11	
	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
EN72V2	GlobalFiler™					
1	12	17	10,14	15,19	11	
	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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

EPCW7R	PowerPlex®					
	12,12	17,17	10,14	15,19		
1		10,12	14,16	19,3,22		12,13
	12,14	12,15.2	28,29	16,16	X,Y	
	19,21			18,18	9,9	
	16,16					
ERHAUK	GlobalFiler™ Direct (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
EX8PMX	PowerPlex® Fusion 5C					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
EZYQNF	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
F3HZD8	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
FDYTKU	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
FPBCZ4	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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

FPWPPG	PowerPlex® Fusion					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17		9,9	8,8
	16,16	11				
FR3BE2	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
G3AMP9	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
GFZ8PX	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
GGEVQP	PowerPlex® Fusion 6C, GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
GGW79	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
GKRL7T	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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

GUH7CQ	GlobalFiler™ (TrueAllele)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
GZRDXP	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
H22MN2	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
H3UGMQ	PowerPlex® Fusion 6C, GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
H8Q64X	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
HDT9UW	GlobalFiler™ Express					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
HHLDMZ	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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

HMJWMD	PowerPlex® Fusion					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17		9,9	8,8
	16,16	11				
HNQCW6	PowerPlex® Fusion 5C					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
HXXURG	GlobalFiler™ Direct					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
HZ74LY	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
J3NN69	PowerPlex® 21 (STRmix v2.8)					
	12,12	17,17		15,19	11,11	12,18
1	8,9	10,12		19,3,22	8,11	12,13
	12,14	12,15.2	28,29		X,Y	9,10
	19,21	9,9	7,17		9,9	8,8
	16,16					
J4EU78	GlobalFiler™ (GeneMapper ID-X v1.5)					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
J7QLDF	GlobalFiler™ GF Direct					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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

J8L6JN	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
J8XYYN	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
JA8TVN	Investigator® 24plex QS					
	12,12	17,17	10,14	15,19	11,11	N/A
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	N/A	N/A	18,18	9,9	8,8
	16,16	11	N/A	N/A	N/A	
JD86QN	Investigator® 24plex GO!					
	12,12	17,17	10,14	15,19	11,11	n/a
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	n/a	n/a	18,18	9,9	8,8
	16,16	11	n/a	n/a	n/a	
JL3ZVD	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
JN8NCN	PowerPlex® Fusion 6C, GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
JP2EH4	GlobalFiler™ Express					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	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

JTKDRR	GlobalFiler™ casework					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
JURVQM	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
JV6FHX	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
JY6NPT	PowerPlex® Fusion					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
K69U3B	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
KBY6C9	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	NA
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	NA	NA	18,18	9,9	8,8
	16,16	11	NA	NA	2	
KFQJUN	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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

KG2KGM	GlobalFiler™ (Genemapper ID-x)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
KNN43B	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
KPR2U6	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
KPVQAN	GlobalFiler™ IQC					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
KR6QEV	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
KTZAGW	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
L26GUB	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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

L4AB8M	GlobalFiler™					
		12,12	17,17	10,14	15,19	11,11
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
		16,16	11			2
L4ELAK	GlobalFiler™					
		12	17	10,14	15,19	11
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		16	11			2
LA3BRA	GlobalFiler™					
		12	17	10,14	15,19	11
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		16	11			2
LFMAK4	PowerPlex® Fusion 6C					
		12	17	10,14	15,19	11
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21	9	7,17	18	9 8
		16	11	20	19	
LHCM3L	GlobalFiler™ Express					
		12,12	17,17	10,14	15,19	11,11
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
		16,16	11			2
LQPQV7	GlobalFiler™					
		12,12	17,17	10,14	15,19	11,11 N/A
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21	N/A	N/A	18,18	9,9 8,8
		16,16	11	N/A	N/A	2
LV48P4	GlobalFiler™					
		12	17	10,14	15,19	11
1		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		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

LVE7JD	GlobalFiler™ Direct					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
LWLUF4	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
LXNEPQ	GlobalFiler™ Express					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
LY3HK4	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
M482W2	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
M4U6UH	NGM SElect					
	12,12	17,17	10,14	15,19		
1		10,12	14,16	19,3,22		12,13
	12,14	12,15.2	28,29	16,16	X,Y	
	19,21			18,18	9,9	
	16,16					
MDBXYJ	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	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

MJJEY	GlobalFiler™					
		12,12	17,17	10,14	15,19	11,11
	1	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
	16,16	11			2	
MQHYGV	GlobalFiler™ (STRmix)					
		12	17	10,14	15,19	11
	1	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
	16	11			2	
MW8GWR	Fusion 5C					
		12,12	17,17	10,14	15,19	11,11
	1	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21	9,9	7,17		9,9 8,8
	16,16	11				
N3BKK6	GlobalFiler™					
		12,12	17,17	10,14	15,19	11,11
	1	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
	16,16	11			2	
N7T3DA	GlobalFiler™ Direct					
		12	17	10,14	15,19	11
	1	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
	16	11			2	
N9GEEZ	PowerPlex® Fusion 6C					
		12	17	10,14	15,19	11
	1	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21	9	7,17	18	9 8
	16	11	20	19		
NGDC4N	PowerPlex® Fusion 5C					
		12	17	10,14	15,19	11
	1	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21	9	7,17		9 8
	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

NGVZN4	PowerPlex® 21 (STRmix)					
	12,12	17,17		15,19	11,11	12,18
1	8,9	10,12		19,3,22	8,11	12,13
	12,14	12,15.2	28,29		X,Y	9,10
	19,21	9,9	7,17		9,9	8,8
	16,16					
NKVCJ4	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
NXHJG6	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	N/A
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	N/A	N/A	18,18	9,9	8,8
	16,16	11	N/A	N/A	2	
P4KAZM	PowerPlex® Fusion					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
P9CEUQ	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
PBHLCJ	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
PFVKTJ	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	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

PFY86Q	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	not tested
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19	not tested	
PLJ8L3	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
PMU8HX	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
PNNVY8	PowerPlex® Fusion					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17		9,9	8,8
	16,16	11				
PNPR94	Investigator® 24plex					
	12	17	10,14	15,19	11	NT
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	NT	NT	18	9	8
	16	11	NT	NT	NT	
PRRNUR	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
PY7CTZ	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	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

Q2NYJZ	GlobalFiler™ (Euroformix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
QCQCYT	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
QEJ6YH	PowerPlex® Fusion 6C, GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
QFDV4W	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	--
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	--	--	18,18	9,9	8,8
	16,16	11	--	--	2	
QVGMJ7	GlobalFiler™ Direct					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
R23WBF	GlobalFiler™ Express					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
R8C33F	GlobalFiler™ (Genemapper ID-x)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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

RE4JGY	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
RLVJER	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
RVYV92	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	NA
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	NA	NA	18,18	9,9	8,8
	16,16	11	NA	NA	2	
RWW77P	GlobalFiler™ (STRMIX)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
T6GYT7	GlobalFiler™ Direct (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
T6LGQ4	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
THQAMM	Investigator® 24plex GO (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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

TM2PR6	GlobalFiler™ Direct					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
TYDTD3	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
TZQMVN	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
TZTCZL	PowerPlex® 5C					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17		9,9	8,8
	16,16	11				
U2YW LZ	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
UJY4FT	PowerPlex® Fusion 5C					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
UMXH3H	PowerPlex® Fusion					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	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

URDTFL	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
UT7LFB	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
UTK9PD	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
UZ4HTF	Identifiler® Plus					
		17,17		15,19	11,11	
1	8,9	10,12			8,11	12,13
	12,14	12,15.2	28,29		X,Y	9,10
	19,21				9,9	8,8
	16,16					
V8JEGM	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
VGAZML	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
VGPORA	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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

VR8ZYP	GlobalFiler™ Express					
		12,12	17,17	10,14	15,19	11,11
	1	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
	16,16	11			2	
VW3PHH	GlobalFiler™					
		12	17	10,14	15,19	11
	1	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
	16	11			2	
VYQ48R	PowerPlex® 6C					
		12	17	10,14	15,19	11
	1	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21	9	7,17	18	9 8
	16	11	20	19		
VZKRM3	PowerPlex® Fusion					
		12,12	17,17	10,14	15,19	11,11
	1	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21	9,9	7,17		9,9 8,8
	16,16	11				
WBHAFG	GlobalFiler™ Express					
		12	17	10,14	15,19	11
	1	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
	16	11			2	
WBYBEC	GlobalFiler™					
		12	17	10,14	15,19	11
	1	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
	16	11			2	
WD7N4Q	PowerPlex® Fusion 6C					
		12	17	10,14	15,19	11
	1	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21	9	7,17	18	9 8
	16	11	20	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

WMAX9V	PowerPlex® 21 (STRmix v2.8)					
	12,12	17,17		15,19	11,11	12,18
1	8,9	10,12		19,3,22	8,11	12,13
	12,14	12,15.2	28,29		X,Y	9,10
	19,21	9,9	7,17		9,9	8,8
	16,16					
WUT2FX	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
WWFL2	GlobalFiler™ Direct					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
WWYM7H	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
WZYX2H	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	Not Tested
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19	Not Tested	
X3GC6J	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
X4DV8K	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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

XDVG99	ESI17-Fast					
		12,12	17,17	10,14	15,19	
	1		10,12	14,16	19,3,22	12,13
		12,14	12,15.2	28,29	16,16	X,Y
		19,21			18,18	9,9
	16,16					
XKHZUW	PowerPlex® Fuson 6C					
		12,12	17,17	10,14	15,19	11,11
	1		10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21	9,9	7,17	18,18	9,9 8,8
	16,16	11	20	19		
XQ36KC	GlobalFiler™					
		12,12	17,17	10,14	15,19	11,11
	1		10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
	16,16	11			2	
XWBQ99	GlobalFiler™ Express					
		12	17	10,14	15,19	11
	1		10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
	16	11			2	
Y4RERG	GlobalFiler™					
		12	17	10,14	15,19	11
	1		10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
	16	11			2	
Y62NGT	GlobalFiler™					
		12,12	17,17	10,14	15,19	11,11
	1		10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21	N/A	N/A	18,18	9,9 8,8
	16,16	11	N/A	N/A	2	
Y6NREA	GlobalFiler™ Express					
		12	17	10,14	15,19	11
	1		10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
	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

YCMJKH	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
YEMWXA	Identifiler® Plus					
		17,17		15,19	11,11	
1	8,9	10,12			8,11	12,13
	12,14	12,15.2	28,29		X,Y	9,10
	19,21				9,9	8,8
	16,16					
YQG9EU	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
YRF9FF	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
YVXBLZ	GlobalFiler™ Direct					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
Z2Y6W7	PowerPlex® Fusion 6C, GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
Z6A7WQ	GlobalFiler™					
	12	17	10,14	15,19	11	
1	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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

Z6G6E8	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
Z7CUCA	Identifiler® Plus					
		17,17		15,19	11,11	
1	8,9	10,12			8,11	12,13
	12,14	12,15.2	28,29		X,Y	9,10
	19,21				9,9	8,8
	16,16					
Z8NKLD	Investigator® 24plex					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11				
ZQZCLU	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
ZUYNJF	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
ZXHPH9	GlobalFiler™ Express					
	12,12	17,17	10,14	15,19	11,11	
1	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
ZYANW7	ESI-17					
	12,12	17,17	10,14	15,19		
1		10,12	14,16	19.3,22		12,13
	12,14	12,15.2	28,29	16,16	X,Y	
	19,21			18,18	9,9	
	16,16					



TABLE 1

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

Item 2 - STR Results

22FFB6	GlobalFiler™					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12,12
		13,13	13,16	32,2,32.2	11,16	XX
		19,20			17,30.2	9,3,10
		16,18	NR			NR
243ZFA	GlobalFiler™ Express					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12
		13	13,16	32.2	11,16	X
		19,20			17,30.2	9,3,10
		16,18	NR			NR
26BG48	GlobalFiler™					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12,12
		13,13	13,16	32,2,32.2	11,16	XX
		19,20			17,30.2	9,3,10
		16,18				
2B2PVT	PowerPlex® Fusion 6C					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12,12
		13,13	13,16	32,2,32.2	11,16	XX
		19,20	10,16	5,5	17,30.2	9,3,10
		16,18	NR	NR	NR	
2EMAZW	GlobalFiler™ Direct					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12
		13	13,16	32.2	11,16	X
		19,20			17,30.2	9,3,10
		16,18				
2G7N4W	GlobalFiler™ Direct					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12
		13	13,16	32.2	11,16	X
		19,20			17,30.2	9,3,10
		16,18				
2KMVL6	Investigator® 24plex QS, Flex Plex 27					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12,12
		13,13	13,16	32,2,32.2	11,16	XX
		19,20	N/A	5,5	17,30.2	9,3,10
		16,18	N/A	N/A	N/A	N/A

TABLE 1

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

Item 2 - STR Results

2V8ZYW	PowerPlex® Fusion					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	10,16	5,5		9.3,10	8,11
	16,18	ND				
2V9RVJ	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
2XDHZD	Investigator® 24plex					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18	N/A				
2Z6J2U	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,16
	19,20			17,30.2	9.3,10	8,11
	16,18	No Results			No Results	
36VDEL	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5	17,30.2	9.3,10	8,11
	16,18					
38Y4HF	GlobalFiler™ (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
3AMFJ8	GlobalFiler™ Express					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18	NR			NR	

TABLE 1

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

Item 2 - STR Results

3DYM HQ	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	X,X	11,13
	19,20	10,16	5,5	17,30.2	9,3,10	8,11
	16,18	NR	NR	NR		
3GMYJG	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
3JB9V4	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
3XAFMD	GlobalFiler™ (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
3ZDB8G	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
43KQF8	PowerPlex® Fusion					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5		9,3,10	8,11
	16,18	NR				
468ER8	GlobalFiler™ (LRmix Studio)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	X,X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					

TABLE 1

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

Item 2 - STR Results

46MT4N	PowerPlex® Fusion					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	inc	12	10,11
	13	inc	32.2	11,16	X	11,13
	19,20	10,16	5		inc	8,11
	16,18	NR				
47HAFK	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5	17,30.2	9.3,10	8,11
	16,18					
4C9LG9	PowerPlex® Fusion					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5		9.3,10	8,11
	16,18	NR				
4DEBB6	PowerPlex® Fusion 5C					
	10,13	19,23	10,14	16,19	12,13	--
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5	--	9.3,10	8,11
	16,18	--	--	--	--	
4FMGVK	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
4HEFAJ	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
4JK3MN	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	N/A
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	N/A	N/A	17,30.2	9.3,10	8,11
	16,18	N/A	N/A	N/A	N/A	

TABLE 1

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

Item 2 - STR Results

4N4XPF	GlobalFiler™						
	10,13	19,23	10,14	16,19	12,13		
	2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X		11,13
	19,20			17,30.2	9,3,10		8,11
	16,18						
4Q42G3	GlobalFiler™						
	10,13	19,23	10,14	16,19	12,13		
	2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X		11,13
	19,20			17,30.2	9,3,10		8,11
	16,18						
4VY2B4	PowerPlex® Fusion 6c						
	10,13	19,23	10,14	16,19	12,13		
	2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX		11,13
	19,20	10,16	5,5	17,30.2	9,3,10		8,11
	16,18						
4ZPCK3	Investigator® 24plex QS						
	10,13	19,23	10,14	16,19	12,13	N/A	
	2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX		11,13
	19,20	N/A	N/A	17,30.2	9,3,10		8,11
	16,18	N/A	N/A	N/A	N/A		
666YZT	GlobalFiler™ Direct						
	10,13	19,23	10,14	16,19	12,13		
	2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X		11,13
	19,20			17,30.2	9,3,10		8,11
	16,18						
6BAZ2M	GlobalFiler™						
	10,13	19,23	10,14	16,19	12,13	NA	
	2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX		11,13
	19,20	NA	NA	17,30.2	9,3,10		8,11
	16,18	NA	NA	NA	NA		
6DEQ7G	GlobalFiler™						
	10,13	19,23	10,14	16,19	12,13		
	2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX		11,13
	19,20			17,30.2	9,3,10		8,11
	16,18	--			--		

TABLE 1

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

Item 2 - STR Results

6G63LL	GlobalFiler™ (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
6NW8Z9	GlobalFiler™ Express					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	XX	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18	NM			NM	
6PKL6K	GlobalFiler™ (Euroformix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18	-			-	
6QF68L	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
73DKQA	Investigator® 24plex GO! (STRMix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
79EL83	GlobalFiler™ IQC					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
7A8PHP	PowerPlex® Fusion					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5		9,3,10	8,11
	16,18					

TABLE 1

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

Item 2 - STR Results

7CYQLR	GlobalFiler™ Direct					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
7EL3MH	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	10,16	5,5	17,30.2	9,3,10	8,11
	16,18					
7HN4P2	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
7LPA3L	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18	NR			NR	
7PK6JZ	GlobalFiler™ Express					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	XX	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18	NM			NM	
7QWKDZ	GlobalFiler™ Express					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	XX	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18	NM			NM	
7TL8PN	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	10,16	5,5	17,30.2	9,3,10	8,11
	16,18	NR	NR	NR		

TABLE 1

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

Item 2 - STR Results

7Z4DQ2	GlobalFiler™					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17.3,24	12,12 10,11
		13,13	13,16	32.2,32.2	11,16	XX 11,13
		19,20			17,30.2	9.3,10 8,11
		16,18	NR			NR
7Z9UNZ	GlobalFiler™					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17.3,24	12,12 10,11
		13,13	13,16	32.2,32.2	11,16	XX 11,13
		19,20			17,30.2	9.3,10 8,11
		16,18				
82XHHF	PowerPlex® Fusion 6C					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17.3,24	12 10,11
		13	13,16	32.2	11,16	X 11,13
		19,20	10,16	5	17,30.2	9.3,10 8,11
		16,18				
84YLA3	GlobalFiler™ Express					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17.3,24	12 10,11
		13	13,16	32.2	11,16	X 11,13
		19,20			17,30.2	9.3,10 8,11
		16,18				
86DX4Z	PowerPlex® Fusion 6C					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17.3,24	12 10,11
		13	13,16	32.2	11,16	X 11,13
		19,20	10,16	5	17,30.2	9.3,10 8,11
		16,18				
88YW63	GlobalFiler™ Express					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17.3,24	12 10,11
		13	13,16	32.2	11,16	X 11,13
		19,20			17,30.2	9.3,10 8,11
		16,18	NR			NR
89GNG8	GlobalFiler™					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17.3,24	12,12 10,11
		13,13	13,16	32.2,32.2	11,16	XX 11,13
		19,20			17,30.2	9.3,10 8,11
		16,18	F			F



TABLE 1

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

8CFZC8	GlobalFiler™					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17.3,24	12,12
		13,13	13,16	32.2,32.2	11,16	XX
		19,20			17,30.2	9.3,10
		16,18				8,11
8CRY8G	PowerPlex® Fusion 6C					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17.3,24	12
		13	13,16	32.2	11,16	X
		19,20	10,16	5	17,30.2	9.3,10
		16,18				8,11
8G7AM7	PowerPlex® Fusion					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17.3,24	12
		13	13,16	32.2	11,16	X
		19,20	10,16	5		9.3,10
		16,18	NR			8,11
8GQDTK	GlobalFiler™					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17.3,24	12,12
		13,13	13,16	32.2,32.2	11,16	XX
		19,20	N/A	N/A	17,30.2	9.3,10
		16,18	NSD	N/A	N/A	NSD
8M9QPY	Investigator® 24plex QS					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17.3,24	12,12
		13,13	13,16	32.2,32.2	11,16	XX
		19,20	N/A	N/A	17,30.2	9.3,10
		16,18	N/A	N/A	N/A	8,11
8TZQC8	PowerPlex® Fusion 6C					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17.3,24	12,12
		13,13	13,16	32.2,32.2	11,16	XX
		19,20	10,16	5,5	17,30.2	9.3,10
		16,18				8,11
8V87KX	Investigator® 24plex QS					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17.3,24	12,12
		13,13	13,16	32.2,32.2	11,16	XX
		19,20			17,30.2	9.3,10
		16,18				8,11

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 2 - STR Results

92RQ2J	GlobalFiler™					
		10,13	19,23	10,14	16,19	12,13 NA
2		10,13	13,15	14,17	17,3,24	12,12 10,11
		13,13	13,16	32.2,32.2	11,16	XX 11,13
		19,20	NA	NA	17,30.2	9,3,10 8,11
		16,18	NA	NA	NA	NA
99AWZB	GlobalFiler™					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12 10,11
		13	13,16	32.2	11,16	X 11,13
		19,20			17,30.2	9,3,10 8,11
		16,18				
9MMFDJ	GlobalFiler™					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12 10,11
		13	13,16	32.2	11,16	X 11,13
		19,20			17,30.2	9,3,10 8,11
		16,18				
9N6J74	PowerPlex® Fusion 5C					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12 10,11
		13	13,16	32.2	11,16	X 11,13
		19,20	10,16	5		9,3,10 8,11
		16,18	NR			
9R3ZJX	GlobalFiler™ (STRmix)					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12 10,11
		13	13,16	32.2	11,16	X 11,13
		19,20			17,30.2	9,3,10 8,11
		16,18				
9WFKR4	PowerPlex® Fusion					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12 10,11
		13	13,16	32.2	11,16	X 11,13
		19,20	10,16	5		9,3,10 8,11
		16,18	NR			
A4B66J	PowerPlex® Fusion 6C					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12,12 10,11
		13,13	13,16	32.2,32.2	11,16	XX 11,13
		19,20	10,16	5,5	17,30.2	9,3,10 8,11
		16,18	NR	NR	NR	

TABLE 1

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

Item 2 - STR Results

A4R76Z	GlobalFiler™					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12,12
		13,13	13,16	32,2,32.2	11,16	X,X
		19,20			17,30.2	9,3,10
		16,18				8,11
A7YG7A	GlobalFiler™					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12
		13	13,16	32.2	11,16	X
		19,20			17,30.2	9,3,10
		16,18				8,11
A944JE	PowerPlex® Fusion 6C					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12
		13	13,16	32.2	11,16	X
		19,20	10,16	5	17,30.2	9,3,10
		16,18				8,11
A9R8CP	GlobalFiler™ Direct					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12
		13	13,16	32.2	11,16	X
		19,20			17,30.2	9,3,10
		16,18				8,11
AC8WFY	GlobalFiler™ Express					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12
		13	13,16	32.2	11,16	X
		19,20			17,30.2	9,3,10
		16,18				8,11
AG2VPM	GlobalFiler™ Direct					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12
		13	13,16	32.2	11,16	X
		19,20			17,30.2	9,3,10
		16,18				8,11
AULEKC	GlobalFiler™					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17,3,24	12,12
		13,13	13,16	32,2,32.2	11,16	X,X
		19,20			17,30.2	9,3,10
		16,18	--			--

TABLE 1

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

Item 2 - STR Results

AWQ4P7	GlobalFiler™ (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
BCRBXF	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
BL9Q3V	GlobalFiler™ Express					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18	NM			NM	
BNZJJ9	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
BQKPHV	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
BRYUE9	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
BUC2WE	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					

TABLE 1

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

Item 2 - STR Results

C62UJW	PowerPlex® Fusion 5C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5		9.3,10	8,11
	16,18					
CE7U2B	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5	17,30.2	9.3,10	8,11
	16,18					
CEM97Y	PowerPlex® Fusion					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5		9.3,10	8,11
	16,18	NR				
CK947H	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	10,16	5,5	17,30.2	9.3,10	8,11
	16,18	NR	NR	NR		
CLLKHV	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18	F,F			F,F	
CPYHNV	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	10,16	5,5	17,30.2	9.3,10	8,11
	16,18					
D2EP96	GlobalFiler™ (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					

TABLE 1

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

Item 2 - STR Results

D37J8U	PowerPlex® Fusion 6C, GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	X,X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18	Not detected			Not detected	
DAAMXT	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
DE3RNC	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5	17,30.2	9.3,10	8,11
	16,18					
DEMBUJ	PowerPlex® Fusion					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	X,X	11,13
	19,20	10,16	5,5		9.3,10	8,11
	16,18	ND				
DQUEWR	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18	---			---	
DVQZNV	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
EANCUD	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	N/A
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	X,X	11,13
	19,20	N/A	N/A	17,30.2	9.3,10	8,11
	16,18	N/A	N/A	N/A	N/A	

TABLE 1

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

Item 2 - STR Results

EBEFMK	GlobalFiler™ Direct (STRmix)						
		10,13	19,23	10,14	16,19	12,13	
	2	10,13	13,15	14,17	17.3,24	12	10,11
		13	13,16	32.2	11,16	X	11,13
		19,20			17,30.2	9.3,10	8,11
	16,18						
EJ9HT3	GlobalFiler™ (STRmix)						
		10,13	19,23	10,14	16,19	12,13	
	2	10,13	13,15	14,17	17.3,24	12	10,11
		13	13,16	32.2	11,16	X	11,13
		19,20			17,30.2	9.3,10	8,11
	16,18						
EJQRHX	PowerPlex® Fusion						
		10,13	19,23	10,14	16,19	12,13	
	2	10,13	13,15	14,17	17.3,24	12	10,11
		13	13,16	32.2	11,16	X	11,13
		19,20	10,16	5		9.3,10	8,11
	16,18	NR					
EKMAJY	GlobalFiler™						
		10,13	19,23	10,14	16,19	12,13	
	2	10,13	13,15	14,17	17.3,24	12	10,11
		13	13,16	32.2	11,16	X	11,13
		19,20			17,30.2	9.3,10	8,11
	16,18						
EMAN99	PowerPlex® Fusion 6C						
		10,13	19,23	10,14	16,19	12,13	
	2	10,13	13,15	14,17	17.3,24	12	10,11
		13	13,16	32.2	11,16	X	11,13
		19,20	10,16	5	17,30.2	9.3,10	8,11
	16,18						
EN72V2	GlobalFiler™						
		10,13	19,23	10,14	16,19	12,13	
	2	10,13	13,15	14,17	17.3,24	12	10,11
		13	13,16	32.2	11,16	X	11,13
		19,20			17,30.2	9.3,10	8,11
	16,18						
EPCW7R	PowerPlex®						
		10,13	19,23	10,14	16,19		
	2		13,15	14,17	17.3,24		10,11
		13,13	13,16	32.2,32.2	11,16	XX	
		19,20			17,30.2	9.3,10	
	16,18						

TABLE 1

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

Item 2 - STR Results

ERHAUK	GlobalFiler™ Direct (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
EX8PMX	PowerPlex® Fusion 5C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5		9.3,10	8,11
	16,18	NR				
EZYQNF	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	10,16	5,5	17,30.2	9.3,10	8,11
	16,18	NR	NR	NR		
F3HZD8	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
FDYTKU	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18	NR			NR	
FPBCZ4	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
FPWPPG	PowerPlex® Fusion					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	10,16	5,5		9.3,10	8,11
	16,18	ND				



TABLE 1

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

FR3BE2	GlobalFiler™ (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
G3AMP9	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
GFZ8PX	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
GGEVQP	PowerPlex® Fusion 6C, GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18	Not Detected			Not Detected	
GGW79	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
GKRL7T	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
GUH7CQ	GlobalFiler™ (TrueAllele)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					

TABLE 1

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

Item 2 - STR Results

GZRDXP	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
H22MN2	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
H3UGMQ	PowerPlex® Fusion 6C, GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18	Not Detected			Not Detected	
H8Q64X	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
HDT9UW	GlobalFiler™ Express					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	XX	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18	NM			NM	
HHLDMZ	GlobalFiler™ (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
HMJWMD	PowerPlex® Fusion					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	10,16	5,5		9,3,10	8,11
	16,18	n/a				

TABLE 1

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

Item 2 - STR Results

HNQCW6	PowerPlex® Fusion 5C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5		9.3,10	8,11
	16,18	NA				
HXXURG	GlobalFiler™ Direct					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
HZ74LY	GlobalFiler™ (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
J3NN69	PowerPlex® 21 (STRmix v2.8)					
	10,13	19,23		16,19	12,13	17,20
2	10,13	13,15		17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2		XX	11,13
	19,20	10,16	5,5		9.3,10	8,11
	16,18					
J4EU78	GlobalFiler™ (GeneMapper ID-X v1.5)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20				9.3,10	8,11
	16,18					
J7QLDF	GlobalFiler™ GF Direct					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
J8L6JN	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					

TABLE 1

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

Item 2 - STR Results

J8XYYN	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	10,16	5,5	17,30.2	9.3,10	8,11
	16,18					
JA8TVN	Investigator® 24plex QS					
	10,13	19,23	10,14	16,19	12,13	N/A
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	N/A	N/A	17,30.2	9.3,10	8,11
	16,18	N/A	N/A	N/A	N/A	
JD86QN	Investigator® 24plex QS					
	10,13	19,23	10,14	16,19	12,13	n/a
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	n/a	n/a	17,30.2	9.3,10	8,11
	16,18	n/a	n/a	n/a	n/a	
JL3ZVD	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
JN8NCN	PowerPlex® Fusion 6C, GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18	Not Detected			Not Detected	
JP2EH4	GlobalFiler™ Express					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
JTKDRR	GlobalFiler™ casework					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18	NA			NA	

TABLE 1

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

JURVQM	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
JV6FHX	GlobalFiler™ (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
JY6NPT	PowerPlex® Fusion					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5		9.3,10	8,11
	16,18	NR				
K69U3B	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	10,16	5,5	17,30.2	9.3,10	8,11
	16,18	NR	NR	NR		
KBY6C9	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	NA
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	NA	NA	17,30.2	9.3,10	8,11
	16,18	NA	NA	NA	NA	
KFQJUN	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
KG2KGM	GlobalFiler™ (Genemapper ID-x)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					

TABLE 1

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

Item 2 - STR Results

KNN43B	GlobalFiler™						
	10,13	19,23	10,14	16,19	12,13		
	2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X		11,13
	19,20			17,30.2	9,3,10		8,11
	16,18	No Result			No Result		
KPR2U6	GlobalFiler™						
	10,13	19,23	10,14	16,19	12,13		
	2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X		11,13
	19,20			17,30.2	9,3,10		8,11
	16,18						
KPVQAN	GlobalFiler™ IQC						
	10,13	19,23	10,14	16,19	12,13		
	2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X		11,13
	19,20			17,30.2	9,3,10		8,11
	16,18						
KR6QEV	GlobalFiler™ (STRmix)						
	10,13	19,23	10,14	16,19	12,13		
	2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X		11,13
	19,20			17,30.2	9,3,10		8,11
	16,18						
KTZAGW	GlobalFiler™ (STRmix)						
	10,13	19,23	10,14	16,19	12,13		
	2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X		11,13
	19,20			17,30.2	9,3,10		8,11
	16,18						
L26GUB	GlobalFiler™						
	10,13	19,23	10,14	16,19	12,13		
	2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X		11,13
	19,20			17,30.2	9,3,10		8,11
	16,18						
L4AB8M	GlobalFiler™						
	10,13	19,23	10,14	16,19	12,13		
	2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX		11,13
	19,20			17,30.2	9,3,10		8,11
	16,18						

TABLE 1

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

Item 2 - STR Results

L4ELAK	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
LA3BRA	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18	No Results			No Results	
LFMAK4	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5	17,30.2	9.3,10	8,11
	16,18					
LHCM3L	GlobalFiler™ Express					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
LQPQV7	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	N/A
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	N/A	N/A	17,30.2	9.3,10	8,11
	16,18	N/A	N/A	N/A	N/A	
LV48P4	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
LVE7JD	GlobalFiler™ Direct					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					

TABLE 1

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

Item 2 - STR Results

LWLUF4	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
LXNEPQ	GlobalFiler™ Express					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18	NM			NM	
LY3HK4	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5	17,30.2	9.3,10	8,11
	16,18					
M482W2	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
M4U6UH	NGM SElect					
	10,13	19,23	10,14	16,19		
2		13,15	14,17	17.3,24		10,11
	13,13	13,16	32.2,32.2	11,16	XX	
	19,20			17,30.2	9.3,10	
	16,18					
MDBXYJ	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
MJJEY	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					



TABLE 1

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

Item 2 - STR Results

MQHYGV	GlobalFiler™ (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
MW8GWR	Fusion 5C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	10,16	5,5		9.3,10	8,11
	16,18					
N3BKK6	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
N7T3DA	GlobalFiler™ Direct					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
N9GEEZ	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5	17,30.2	9.3,10	8,11
	16,18					
NGDC4N	PowerPlex® Fusion 5C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5		9.3,10	8,11
	16,18	NR				
NGVZN4	PowerPlex® 21					
	10,13	19,23		16,19	12,13	17,20
2	10,13	13,15		17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2		XX	11,13
	19,20	10,16	5,5		9.3,10	8,11
	16,18					

TABLE 1

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

## Item 2 - STR Results

NKVCJ4	GlobalFiler™						
	10,13	19,23	10,14	16,19	12,13		
	2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	X,X		11,13
	19,20			17,30.2	9.3,10		8,11
	16,18						
NXHJG6	GlobalFiler™						
	10,13	19,23	10,14	16,19	12,13	N/A	
	2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	X,X		11,13
	19,20	N/A	N/A	17,30.2	9.3,10		8,11
	16,18	N/A	N/A	N/A	N/A		
P4KAZM	PowerPlex® Fusion						
	10,13	19,23	10,14	16,19	12,13		
	2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X		11,13
	19,20	10,16	5		9.3,10		8,11
	16,18	NR					
P9CEUQ	GlobalFiler™ (STRmix)						
	10,13	19,23	10,14	16,19	12,13		
	2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X		11,13
	19,20			17,30.2	9.3,10		8,11
	16,18						
PBHLCJ	PowerPlex® Fusion 6C						
	10,13	19,23	10,14	16,19	12,13		
	2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X		11,13
	19,20	10,16	5	17,30.2	9.3,10		8,11
	16,18						
PFVKTJ	PowerPlex® Fusion 6C						
	10,13	19,23	10,14	16,19	12,13		
	2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	X,X		11,13
	19,20	10,16	5,5	17,30.2	9.3,10		8,11
	16,18						
PFY86Q	PowerPlex® Fusion 6C						
	10,13	19,23	10,14	16,19	12,13	not tested	
	2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	X,X		11,13
	19,20	10,16	5,5	17,30.2	9.3,10		8,11
	16,18	no results	no results	no results	not tested		

TABLE 1

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

Item 2 - STR Results

PLJ8L3	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32,2,32,2	11,16	XX	11,13
	19,20	10,16	5,5	17,30,2	9,3,10	8,11
	16,18	ND	ND	ND		
PMU8HX	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32,2	11,16	X	11,13
	19,20	10,16	5	17,30,2	9,3,10	8,11
	16,18					
PNNVY8	PowerPlex® Fusion					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32,2,32,2	11,16	XX	11,13
	19,20	10,16	5,5		9,3,10	8,11
	16,18	ND				
PNPR94	Investigator® 24plex					
	10,13	19,23	10,14	16,19	12,13	NT
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32,2	11,16	X	11,13
	19,20	NT	NT	17,30,2	9,3,10	8,11
	16,18	NR	NT	NT	NT	
PRRNUR	GlobalFiler™ (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32,2	11,16	X	11,13
	19,20			17,30,2	9,3,10	8,11
	16,18					
PY7CTZ	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32,2	11,16	X	11,13
	19,20	10,16	5	17,30,2	9,3,10	8,11
	16,18					
Q2NYJZ	GlobalFiler™ (Euroformix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32,2	11,16	X	11,13
	19,20			17,30,2	9,3,10	8,11
	16,18	-			-	

TABLE 1

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

Item 2 - STR Results

QCQCYT	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
QEJ6YH	PowerPlex® Fusion 6C, GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18	Not Detected			Not Detected	
QFDV4W	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	--
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	--	--	17,30.2	9.3,10	8,11
	16,18	--	--	--	--	
QVGMJ7	GlobalFiler™ Direct					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
R23WBF	GlobalFiler™ Express					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
R8C33F	GlobalFiler™ (Genemapper ID-x)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
RE4JGY	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					

TABLE 1

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

Item 2 - STR Results

RLVJER	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
RVYV92	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	NA
2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	NA	NA	17,30.2	9,3,10	8,11
	16,18		NA	NA		
RWW77P	GlobalFiler™ (STRMIX)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
T6GYT7	GlobalFiler™ Direct (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
T6LGQ4	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
THQAMM	Investigator® 24plex GO (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
TM2PR6	GlobalFiler™ Direct					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					

TABLE 1

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

Item 2 - STR Results

TYDTD3	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18	No results			No results	
TZQMVN	GlobalFiler™ (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,11
	16,18					
TZTCZL	PowerPlex® 5C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	10,16	5,5		9,3,10	8,11
	16,18					
U2YW LZ	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	10,16	5,5	17,30.2	9,3,10	8,11
	16,18	NR	NR	NR		
UJY4FT	PowerPlex® Fusion 5C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	XX	11,13
	19,20	10,16	5		9,3,10	8,11
	16,18	NA				
UMXH3H	PowerPlex® Fusion					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5		9,3,10	8,11
	16,18	NR				
URDTFL	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	10,16	5,5	17,30.2	9,3,10	8,11
	16,18	No Results	No Results	No Results		

TABLE 1

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

Item 2 - STR Results

UT7LFB	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18	N.R.			N.R.	
UTK9PD	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18	NR			NR	
UZ4HTF	Identifiler® Plus					
		19,23		16,19	12,13	
2	10,13	13,15			12,12	10,11
	13,13	13,16	32.2,32.2		XX	11,13
	19,20				9.3,10	8,11
	16,18					
V8JEGM	GlobalFiler™ (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
VGAZML	GlobalFiler™ (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
VGPERA	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
VR8ZYP	GlobalFiler™ Express					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18	---			---	

TABLE 1

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

Item 2 - STR Results

VW3PHH	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
VYQ48R	PowerPlex® 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5	17,30.2	9.3,10	8,11
	16,18					
VZKRM3	PowerPlex® Fusion					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	10,16	5,5		9.3,10	8,11
	16,18	ND				
WBHAFG	GlobalFiler™ Express					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18	NM			NM	
WBYBEC	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
WD7N4Q	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20	10,16	5	17,30.2	9.3,10	8,11
	16,18					
WMAX9V	PowerPlex® 21 (STRmix v2.8)					
	10,13	19,23		16,19	12,13	17,20
2	10,13	13,15		17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2		XX	11,13
	19,20	10,16	5,5		9.3,10	8,11
	16,18					



TABLE 1

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

## Item 2 - STR Results

WUT2FX	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32,2,32,2	11,16	X,X	11,13
	19,20	10,16	5,5	17,30,2	9,3,10	8,11
	16,18	NR	NR	NR		
WWFL2	GlobalFiler™ Direct					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32,2	11,16	X	11,13
	19,20			17,30,2	9,3,10	8,11
	16,18					
WWYM7H	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32,2,32,2	11,16	X,X	11,13
	19,20	10,16	5,5	17,30,2	9,3,10	8,11
	16,18					
WZYX2H	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	Not Tested
2	10,13	13,15	14,17	17,3,24	12,12	10,11
	13,13	13,16	32,2,32,2	11,16	X,X	11,13
	19,20	10,16	5,5	17,30,2	9,3,10	8,11
	16,18	No Results	No Results	No Results	Not Tested	
X3GC6J	GlobalFiler™ (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32,2	11,16	X	11,13
	19,20			17,30,2	9,3,10	8,11
	16,18					
X4DV8K	GlobalFiler™ (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17,3,24	12	10,11
	13	13,16	32,2	11,16	X	11,13
	19,20			17,30,2	9,3,10	8,11
	16,18					
XDVG99	ESI17-Fast					
	10,13	19,23	10,14	16,19		
2		13,15	14,17	17,3,24		10,11
	13,13	13,16	32,2,32,2	11,16	X,Y	
	19,20			17,30,2	9,3,10	
	16,18					

TABLE 1

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

Item 2 - STR Results

XKHZUW	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	10,16	5,5	17,30.2	9.3,10	8,11
	16,18	NR	NR	NR		
XQ36KC	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
XWBQ99	GlobalFiler™ Express					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18	NM			NM	
Y4RERG	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
Y62NGT	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	N/A
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	N/A	N/A	17,30.2	9.3,10	8,11
	16,18	N/A	N/A	N/A	N/A	
Y6NREA	GlobalFiler™ Express					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
YCMJKH	GlobalFiler™ (STRmix)					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					

TABLE 1

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

Item 2 - STR Results

YEMWXA	Identifiler® Plus					
		19,23		16,19	12,13	
2	10,13	13,15			12,12	10,11
	13,13	13,16	32.2,32.2		XX	11,13
	19,20				9.3,10	8,11
	16,18					
YQG9EU	PowerPlex® Fusion 6C					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20	10,16	5,5	17,30.2	9.3,10	8,11
	16,18	NR	NR	NR		
YRF9FF	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
YVXBLZ	GlobalFiler™ Direct					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
Z2Y6W7	PowerPlex® Fusion 6C, GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18	Not Detected			Not Detected	
Z6A7WQ	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
Z6G6E8	GlobalFiler™					
	10,13	19,23	10,14	16,19	12,13	
2	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18	NR			NR	

TABLE 1

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

Item 2 - STR Results

Z7CUCA	Identifiler® Plus					
		19,23		16,19	12,13	
2		10,13	13,15		12,12	10,11
		13,13	13,16	32.2,32.2	XX	11,13
		19,20			9.3,10	8,11
		16,18				
Z8NKLD	Investigator® 24plex					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17.3,24	12,12
		13,13	13,16	32.2,32.2	11,16	XX
		19,20			17,30.2	9.3,10
		16,18	NA			8,11
ZQZCLU	PowerPlex® Fusion 6C					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17.3,24	12,12
		13,13	13,16	32.2,32.2	11,16	XX
		19,20	10,16	5,5	17,30.2	9.3,10
		16,18	NR	NR	NR	8,11
ZUYNJF	PowerPlex® Fusion 6C					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17.3,24	12,12
		13,13	13,16	32.2,32.2	11,16	XX
		19,20	10,16	5,5	17,30.2	9.3,10
		16,18	No Results	No Results	No Results	8,11
ZXHPH9	GlobalFiler™ Express					
		10,13	19,23	10,14	16,19	12,13
2		10,13	13,15	14,17	17.3,24	12,12
		13,13	13,16	32.2,32.2	11,16	XX
		19,20			17,30.2	9.3,10
		16,18				8,11
ZYANW7	ES-17					
		10,13	19,23	10,14	16,19	
2			13,15	14,17	17.3,24	10,11
		13,13	13,16	32.2,32.2	11,16	XX
		19,20			17,30.2	9.3,10
		16,18				

TABLE 1

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

Item 3 - STR Results

26BG48	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
468ER8	GlobalFiler™ (LRmix Studio)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
4JK3MN	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	N/A
3	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	N/A	N/A	17,18,30.2	9,9.3,10	8,11
	16,18	11	N/A	N/A	2	
4VY2B4	PowerPlex® Fusion 6c					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
6BAZ2M	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	NA
3	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	NA	NA	17,18,30.2	9,9.3,10	8,11
	16,18	11	NA	NA	2	
7LPA3L	GlobalFiler™					
	10,12,13	17,19,23	10,14	[15],16,19	11,12,13	
3	[8],[9],10,13	[10],[12],13,15	14,[16],17	17.3,[19.3],[22],24	[8],[11],12,12	10,11,[12],[13]
	[12],13,13,[14]	[12],13,[15.2],16	[28],[29],32.2,32.2	11,16	X,X,[Y]	[9],[10],11,13
	19,20,[21]			17,[18],30.2	9,9.3,10	8,11
	16,18	11			2	
8GQDTK	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	N/A
3	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	N/A	N/A	17,18,30.2	9,9.3,10	8,11
	16,18	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 3 - STR Results

92RQ2J	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13 NA
3		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21	NA	NA	17,18,30.2	9,9.3,10 8,11
		16,18	11	NA	NA	2
EANCUD	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13 N/A
3		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21	N/A	N/A	17,18,30.2	9,9.3,10 8,11
		16,18	11	N/A	N/A	2
J8XYYN	PowerPlex® Fusion 6C (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
3		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10 8,11
		16,18	11	20	19	
JTKDRR	GlobalFiler™ CASEWORK					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
3		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
		16,18	11			2
KBY6C9	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13 NA
3		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21	NA	NA	17,18,30.2	9,9.3,10 8,11
		16,18	11	NA	NA	2
KPVQAN	GlobalFiler™ IQC					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
3		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
		16,18	11			2
LQPQV7	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13 N/A
3		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21	N/A	N/A	17,18,30.2	9,9.3,10 8,11
		16,18	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 3 - STR Results

NKVCJ4	GlobalFiler™						
	10,12,13	17,19,23	10,14	15,16,19	11,12,13		
	3	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13	
	19,20,21			17,18,30.2	9,9.3,10	8,11	
	16,18	11			2		
NXHJG6	GlobalFiler™						
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	N/A	
	3	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13	
	19,20,21	N/A	N/A	17,18,30.2	9,9.3,10	8,11	
	16,18	11	N/A	N/A	2		
PFY86Q	PowerPlex® Fusion 6C						
	10,12,13	17,19,23	10,14	[15],16,19	11,12,13	not tested	
	3	[8],9,10,13	[10],12,13,15	14,[16],17	17.3,[19.3],22,24	[8,11],12	10,11,[12,13]
	[12],13,[14]	[12],13,[15.2],16	[28,29],32.2	[11],16	X,[Y]	9,10,11,13	
	19,[20,21]	9,10,16	5,[7,17]	17,18,30.2	9,9.3,10	8,[11]	
	16,[18]	11	20	19	not tested		
RVYV92	GlobalFiler™						
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	NA	
	3	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13	
	19,20,21	NA	NA	17,18,30.2	9,9.3,10	8,11	
	16,18	11	NA	NA	2		
URDTFL	PowerPlex® Fusion 6C						
	10,12,13	17,19,23	10,14	[15],16,19	11,12,13		
	3	8,9,10,13	[10],12,13,15	14,[16],17	17.3,19.3,[22],24	[8],[11],12	10,11,12,[13]
	[12],13,[14]	[12],13,15.2,16	[28],[29],32.2	11,16	X,[Y]	9,10,11,13	
	19,[20],[21]	9,10,16	5,[7],[17]	17,18,30.2	9,9.3,10	8,[11]	
	16,[18]	11	20	19			
UZ4HTF	Identifiler® Plus						
		17,19,23		15,16,19	11,12,13		
	3	8,9,10,13	10,12,13,15		8,11,12	10,11,12,13	
	12,13,14	12,13,15.2,16	28,29,32.2		X,Y	9,10,11,13	
	19,20,21				9,9.3,10	8,11	
	16,18						
WBYBEC	GlobalFiler™						
	10,12,13	17,19,23	10,14	15,16,19	11,12,13		
	3	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13	
	19,20,21			17,18,30.2	9,9.3,10	8,11	
	16,18	11		2			

TABLE 1

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

Item 3 - STR Results

WWYM7H	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
WZYX2H	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	Not Tested
3	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19	Not Tested	
XQ36KC	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
Y62NGT	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	N/A
3	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	N/A	N/A	17,18,30.2	9,9.3,10	8,11
	16,18	11	N/A	N/A	2	
ZUYNJF	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	[15],16,19	11,12,13	
3	8,9,10,13	[10],12,13,15	14,[16],[17]	17.3,19.3,[22],24	[8],[11],12	10,11,[12],[13]
	[12],13,[14]	[12],13,[15.2],16	[28],[29],32.2	[11],16	X,[Y]	[9],[10],11,13
	19,[20],[21]	9,10,16	5,[7],[17]	17,18,30.2	9,9.3,10	8,[11]
	16,18	11	20	19		
ZXHPH9	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,18,19	11,12,13	
3	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	



TABLE 1

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

Item 3e - STR Results

22FFB6	GlobalFiler™					
	10,12,13	17,19,23	10,14	(15),16,19	11,12,13	
3e	(8),(9),10,13	(10),(12),13,15	14,(16),17	17.3,(19.3),(22),24	(8),(11),12	10,11,(12),(13)
	(12),13,(14)	(12),13,(15.2),16	(28),(29),32.2	11,16	X,(Y)	(9),(10),11,13
	19,20,(21)			17,18,30.2	9,9.3,10	8,11
	16,(18)	11			2	
243ZFA	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
2B2PVT	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
2EMAZW	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,17,19	11,12,13	
3e	8,9,10,11,13	10,11,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,14.2,15.2,16	28,29,32.2	11,16,17	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
2G7N4W	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,12,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
2KMVL6	Investigator® 24plex QS					
	10,[12],13	[17],19,23	10,14	[15],16,19	[11],12,13	N/A
3e	[8],[9],10,13	[10],[12],13,15	14,[16],17	17.3,[19.3],[22],24	[8],[11],12	10,11,[12],[13]
	[12],13,[14]	[12],13,[15.2],16	[28],[29],32.2	11,16	X,[Y]	[9],[10],11,13
	19,20,[21]	N/A	N/A	17,[18],30.2	[9],9.3,10	8,11
	16,18	11	N/A	N/A	N/A	
2V8ZYW	PowerPlex® Fusion					
	10,13	ND	10,14	16,19	ND	
3e	ND	[10],[12],13,15	Inc	17.3,24	ND	10,11,[13]
	13,13	13,16	Inc	ND	X,X	Inc
	19,20	ND	ND		9,9.3,10	ND
	16,18	ND				

TABLE 1

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

Item 3e - STR Results

2V9RVJ	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
2XDHZD	Investigator® 24plex (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11				
36VDEL	PowerPlex® Fusion 6C (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
38Y4HF	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
3AMFJ8	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
3DYMHQ	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
3GMYJG	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

Item 3e - STR Results

3JB9V4	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
3e		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
		16,18	11			8,11
						2
3XAFMD	GlobalFiler™ (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
3e		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
		16,18	11			8,11
						2
3ZDB8G	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
3e		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
		16,18	11			8,11
						2
43KQF8	PowerPlex® Fusion					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
3e		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21	9,10,16	5,7,17		9,9.3,10
		16,18	11			8,11
46MT4N	PowerPlex® Fusion					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
3e		8,9,10,13	10,12,13,15	14,16,17	inc	8,11,12
		12,13,14	inc	28,29,32.2	11,16	X,Y
		19,20,21	9,10,16	5,7,17		9,inc
		16,18	11			8,11
47HAFK	PowerPlex® Fusion 6C					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
3e		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10
		16,18	11	20	19	8,11
4C9LG9	PowerPlex® Fusion					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
3e		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21	9,10,16	5,7,17		9,9.3,10
		16,18	11			8,11

TABLE 1

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

## Item 3e - STR Results

4DEBB6	PowerPlex® Fusion 5C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	--
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	--	9,9.3,10	8,11
	16,18	11	--	--	--	
4FMGVK	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
4HEFAJ	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
4N4XPF	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
4Q42G3	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
4ZPCK3	Investigator® 24plex QS					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	N/A
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	N/A	N/A	17,18,30.2	9,9.3,10	8,11
	16,18	11	N/A	N/A	N/A	
666YZT	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,11,13	10,12,13,15	14,16,17	17.3,19.3,21,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16,17	X,Y	9,10,11,13
	16,17,19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

Item 3e - STR Results

6DEQ7G	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
6G63LL	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
6NW8Z9	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
6PKL6K	GlobalFiler™ (Euroformix)					
	10,[12],13	[17],19,23	10,14	[15],16,19	[11],12,13	
3e	[8],[9],10,13	[10],[12],13,15	14,[16],17	17.3,[19.3],[22],24	[8],[11],12	10,11,[12],[13]
	[12],13,[14]	[12],13,[15.2],16	[28],[29],32.2,	11,16	X,[Y]	[9],[10],11,13
	19,20,[21]			17,[18],30.2	[9],9.3,10	8,11
	16,18	11			2	
6QF68L	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
73DKQA	Investigator® 24plex QS (STRMix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
79EL83	GlobalFiler™ IQC					
	10,[12],13	[17],19,23	10,14	[15],16,19	[11],12,13	
3e	[8],[9],10,13	[10],[12],13,15	14,[16],17	17.3,[19.3,22],24	[8,11],12	10,11,[12],13
	[12],13,[14]	[12],13,[15.2],16	[28,29],32.2	11,16	X,[Y]	[9,10],11,13
	19,20,[21]			17,[18],30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

## Item 3e - STR Results

7CYQLR	GlobalFiler™ (strmix)					
	10,12,13	17,19,23	10,14	15,16,18,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16,17	X,Y	9,10,11,12,13
	19,20,21			16.2,17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
7EL3MH	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
7HN4P2	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
7PK6JZ	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
7QWKDZ	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
7TL8PN	PowerPlex® Fusion 6C (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
7Z4DQ2	GlobalFiler™					
	[10],12,13	17,19,23	10,14	15,16,19	11,[12],13	
3e	8,9,10,13	[10],[12],13,15	14,[16],[17]	17.3,19.3,[22],24	8,11,12	10,11,12,[13]
	[12],13,[14]	12,13,[15.2],16	28,[29],32.2	[11],16	X,[Y]	9,10,11,13
	19,20,[21]			17,18,[30.2]	9,9.3,10	8,[11]
	16,[18]	11			2	

TABLE 1

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

Item 3e - STR Results

7Z9UNZ	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
82XHHF	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
84YLA3	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
86DX4Z	PowerPlex® Fusion 6C (STRmix 2.9.0)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
88YW63	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
89NGG8	GlobalFiler™					
	10,[12],[12],13	[17],[17],19,23	[10],10,[14],14	[15],16,[19],19	[11],[11],12,13	
3e	[8],[9],10,13	[10],[12],13,15	[14],14,[16],17	17.3,[19.3],[22],24	[8],[11],12,12	10,11,[12],[13]
	[12],13,13,[14]	[12],13,[15.2],16	[28],[29],32.2,32.2	11,[16],[16],16	[X],X,X,[Y]	[9],[10],11,13
	[19],19,20,[21]			17,[18],[18],30.2	[9],[9],9.3,10	[8],[8],8,11
	[16],[16],16,18	[11]			[2]	
8CFZC8	GlobalFiler™					
	10,12,13	(17),19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,(12),13,15	14,(16),(17)	17,(19.3),22,24	(8),(11),12	10,11,(12),(13)
	(12),13,(14)	12,13,15.2,16	(28),(29),32.2	(11),16	X,(Y)	(9),(10),11,13
	19,20,(21)			17,18,30.2	9,9.3,10	8,11
	16,18	(11)			(2)	

TABLE 1

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

Item 3e - STR Results

8CRY8G	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
8G7AM7	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				
8M9QPY	Investigator® 24plex QS					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	N/A
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	N/A	N/A	17,18,30.2	9,9.3,10	8,11
	16,18	11	N/A	N/A	N/A	
8TZQC8	PowerPlex® Fusion 6C					
	10,12,13	[17],19,23	10,14	[15],16,19	[11],12,13	
3e	[8],[9],10,13	[10],[12],13,15	14,[16],17	17.3,[19.3],[22],24	[8],[11],12	10,11,[12],[13]
	13,[14]	[12],13,[15.2],16	[28],[29],32.2	11,16	X,[Y]	[9],[10],11,13
	19,20,[21]	[9],10,16	5,[7],[17]	17,[18],30.2	9,9.3,10	8,11
	16,18	11	20	19		
8V87KX	Investigator® 24plex QS					
	10,(12),13	(17),19,23	10,14	(15),16,19	11,12,13	
3e	(8,9),10,13	(10,12),13,15	14,(16),17	17.3,(19.3,22),24	(8,11),12,12	10,11,(12,13)
	(12),13,13,(14)	(12),13,(15.2),16	(28,29),32.2,32.2	11,16	X,X	(9,10),11,13
	19,20,(21)			17,18,30.2	9,9.3,10	8,11
	16,18	11				
99AWZB	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
9MMFDJ	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	



TABLE 1

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

## Item 3e - STR Results

9N6J74	PowerPlex® Fusion 5C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				
9R3ZJX	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
9WFKR4	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				
A4B66J	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
A4R76Z	GlobalFiler™ (True Allele)					
	10,13	19,23	10,14	16,19	12,13	
3e	10,13	13,15	14,17	17.3,24	12,12	10,11
	13,13	13,16	32.2,32.2	11,16	XX	11,13
	19,20			17,30.2	9.3,10	8,11
	16,18					
A7YG7A	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
A944JE	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	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 3e - STR Results

A9R8CP	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,18.3,19.3,22.2 4	8,11,12	10,11,12,13
	12,13,14	12,13,14.2,15.2,16	28,29,32.2	11,16,17	X,Y	9,10,11,13
	19,20,21,22			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
AC8WFF	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
AG2VPM	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13,14	
3e	8,9,10,13	10,11,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16,17	X,Y	9,10,11,13
	19,20,21,22			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
AULEKC	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
AWQ4P7	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
BCRBXF	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
BL9Q3V	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

Item 3e - STR Results

BNZJJ9	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
BQKPHV	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
BRYUE9	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
BUC2WE	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
C62UJW	PowerPlex® Fusion 5C (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				
CE7U2B	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
CEM97Y	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				

TABLE 1

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

Item 3e - STR Results

CK947H	PowerPlex® Fusion 6C (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
CLLKHV	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11,F			2,F	
CPYHNV	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
D2EP96	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
D37J8U	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
DAAMXT	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
DE3RNC	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	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 3e - STR Results

DEMBUJ	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	[8,9],10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	[8,11],12,12	10,11,12,13
	[12],13,13,[14]	12,13,15.2,16	[28,29],32.2,32.2	11,16	X,X,[Y]	9,10,11,13
	19,20,[21]	9,10,16	5,5,[7]		9,9.3,10	8,11
	16,18	ND				
DQUEWR	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
DVQZNV	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
EBEFMK	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16,17	X,Y	9,10,11,12,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
EJ9HT3	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
EJQRHX	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				
EKMAJY	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

## Item 3e - STR Results

EMAN99	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
EN72V2	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
EPCW7R	PowerPlex®					
	10,12,13	17,19,23	10,14	15,16,19		
3e		10,12,13,15	14,16,17	17.3,19.3,22,24		10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	
	19,20,21			17,18,30.2	9,9.3,10	
	16,18					
ERHAUK	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16,17	X,Y	9,10,11,13
	19,20,21			17,18,29.2,30.2	9,9.3,10	8,11
	16,18	11			2	
EX8PMX	PowerPlex® Fusion 5C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				
EZYQNF	PowerPlex® Fusion 6C (STRmix V2.5.11)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
F3HZD8	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

Item 3e - STR Results

FDYTKU	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
FPBCZ4	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
FPWPPG	PowerPlex® Fusion					
	10,12,13	17,17,[19,23]	10,14	15,16,19	11,11,[12,13]	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,[12]	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	16,16	X,X,[Y]	9,10,[11,13]
	19,[20],21	9,9,[10,16]	[5],7,17		9,9.3,10	8,8,[11]
	16,16,[18]	11				
FR3BE2	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
G3AMP9	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
GGEVQP	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
GGW79	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

Item 3e - STR Results

GKRL7T	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
	16,18	11			2	
GUH7CQ	GlobalFiler™ (TrueAllele)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
	16,18	11			2	
GZRDXP	GlobalFiler™ (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
	16,18	11			2	
H22MN2	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
	16,18	11			2	
H3UGMQ	GlobalFiler™					
		10,12,13	[17],19,23	10,14	[15],16,19	11,12,13
	3e	[8],[9],10,13	[10],[12],13,15	14,[16],17	17.3,[19.3],[22],24	[8],[11],12,12 10,11,[12],[13]
		[12],13,13,[14]	[12],13,[15.2],16	[28],[29],32.2,32.2	11,16	X,X,[Y] [9],[10],11,13
		19,20,[21]			17,[18],30.2	9,9.3,10 8,11
	16,[18]	[11]			[2]	
H8Q64X	GlobalFiler™ (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
	16,18	11			2	
HDT9UW	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
	16,18	11			2	



TABLE 1

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

Item 3e - STR Results

HHLDMZ	GlobalFiler™ (STRmix)						
	10,12,13	17,19,23	10,14	15,16,19	11,12,13		
	3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
		19,20,21		17,18,30.2	9,9.3,10	8,11	
	16,18	11			2		
HMJWMD	PowerPlex® Fusion						
	10,12,13	17,19,23	10,14	15,16,19	11,12,13		
	3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	[8,11],12,12	10,11,12,13
		[12],13,13,[14]	12,13,15.2,16	[28,29],32.2,32.2	11,16	X,X,[Y]	9,10,11,13
		19,20,21	9,10,16	5,5,[7,17]	9,9.3,10	8,11	
	16,18	11					
HNQCW6	PowerPlex® Fusion 5C						
	10,12,13	17,19,23	10,14	(15),16,19	11,12,13		
	3e	(8,9),10,13	(10,12),13,15	14,(16),17	17.3,(19.3,22),24	(8,11),12	10,11,(12,13)
		(12),13,(14)	(12),13,(15.2),16	(28,29),32.2	11,16	X,(Y)	(9,10),11,13
		19,20,(21)	9,10,16	5,(7,17)	9,9.3,10	8,11	
	16,18	11					
HXXURG	GlobalFiler™ (STRmix)						
	10,12,13	17,19,23	10,14	15,16,19	11,12,13		
	3e	8,9,10,11,13,14	10,12,13,15	14,16,17	17.3,19.3,22,24	8,9,11,12	10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16,17	X,Y	9,10,11,13
		19,20,21		17,18,30.2	9,9.3,10	8,11	
	16,18	11			2		
HZ74LY	GlobalFiler™ (STRmix)						
	10,12,13	17,19,23	10,14	15,16,19	11,12,13		
	3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
		19,20,21		17,18,30.2	9,9.3,10	8,11	
	16,18	11			2		
J3NN69	PowerPlex® 21 (STRmix v2.8)						
	10,12,13	17,19,23		15,16,19	11,12,13	12,17,18,20	
	3e	8,9,10,13	10,12,13,15		17.3,19.3,22,24	8,11,12	10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2		X,Y	9,10,11,13
		19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18						
J4EU78	GlobalFiler™ (GeneMapper ID-X v.1.5)						
	10,12,13	17,19,23	10,14	15,16,19	11,12,13		
	3e		10,12,13,15	14,16,17			
			12,13,15.2,16		11,16	X,Y	
		19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2		

TABLE 1

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

Item 3e - STR Results

J8L6JN	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
JA8TVN	Investigator® 24plex QS					
	10,12,13	17,19,23	10,14	[15],16,19	11,12,13	N/A
3e	[8],[9],10,13	[10],[12],13,15	14,[16],17	17.3,[19.3],[22],24	[8],[11],12	10,11,[12],[13]
	[12],13,[14]	[12],13,[15.2],16	[28],[29],32.2	11,16	X,[Y]	[9],[10],11,13
	19,20,[21]	N/A	N/A	17,[18],30.2	9,9.3,10	8,11
	16,18	11	N/A	N/A	N/A	
JD86QN	Investigator® 24plex QS					
	10,[12],13	[17],19,23	10,14	[15],16,19	[11],12,13	n/a
3e	[8],[9],10,13	[10],[12],13,15	14,[16],17	17.3,[19.3],[22],24	[8],[11],12	10,11,[12],[13]
	[12],13,[14]	[12],13,[15.2],16	[28],[29],32.2	11,16	X,[Y]	[9],[10],11,13
	19,20,[21]	n/a	n/a	17,[18],30.2	9,9.3,10	8,[11]
	16,18	11	n/a	n/a	n/a	
JL3ZVD	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
JN8NCN	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,[18],19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
JP2EH4	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
JURVQM	GlobalFiler™					
	10,12,13	17,19,23	10,14	[15],16,19	11,12,13	
3e	[8],[9],10,13	[10],[12],13,15	14,[16],17	17.3,[19.3],[22],24	[8],[11],12	10,11,[12],[13]
	[12],13,[14]	[12],13,[15.2],16	[28],[29],32.2	11,16	X,[Y]	[9],[10],11,13
	19,20,[21]			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

Item 3e - STR Results

JV6FHX	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
JY6NPT	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				
K69U3B	PowerPlex® Fusion 6C (STRmix V2.5.11)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
KFQJUN	GlobalFiler™					
	10,13	19,23	10,14	16,19	11,13	
3e	10,13	13,15	14,17	17.3,24	12	10,11
	13	13,16	32.2	11,16	X	11,13
	19,20			17,30.2	9,3,10	8,18
	16,18					
KG2KGM	GlobalFiler™ (Genemapper ID-x)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
KPR2U6	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
KR6QEV	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

Item 3e - STR Results

KTZAGW	GlobalFiler™ (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
	16,18	11			2	
L26GUB	GlobalFiler™ (STRmix)					
		10,12,13	17,19,23	10,14	15,16,18,19	11,12,13
	3e	8,9,10,13	10,11,12,13,15	14,15,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
	16,18	11			2	
L4AB8M	GlobalFiler™ (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
	16,18	11			2	
L4ELAK	GlobalFiler™ (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
	16,18	11			2	
LFMAK4	PowerPlex® Fusion 6C (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10 8,11
	16,18	11	20	19		
LHCM3L	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
	16,18	11			2	
LV48P4	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
	16,18	11			2	

TABLE 1

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

## Item 3e - STR Results

LVE7JD	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,17,18,19	11,12,13	
3e	8,9,10,11,13,14	10,12,13,15	14,16,17	17,3,19,3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16,17	X,Y	9,10,11,13,14
	19,20,21			17,18,30.2	9,9,3,10	8,11
	16,18	11			2	
LWLUF4	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17,3,19,3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9,3,10	8,11
	16,18	11			2	
LXNEPQ	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17,3,19,3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9,3,10	8,11
	16,18	11			2	
LY3HK4	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17,3,19,3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9,3,10	8,11
	16,18	11	20	19		
M482W2	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17,3,19,3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9,3,10	8,11
	16,18	11			2	
M4U6UH	NGM SElect					
	10,12,13	17,19,23	10,14	15,16,19		
3e		10,12,13,15	14,16,17	17,3,19,3,22,24		10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16	X,Y	
	19,20,21			17,18,30.2	9,9,3,10	
	16,18					
MDBXYJ	GlobalFiler™					
	10,12,13	17,19,23	10,14	[15],16,19	11,12,13	
3e	[8],[9],10,13	[10],[12],13,15	14,[16],17	17,3,[19,3],[22],24	[8],[11],12	10,11,[12],[13]
	[12],13,[14]	[12],13,[15,2],16	[28],[29],32.2	[11],16	X,[Y]	[9],[10],11,13
	19,20,[21]			17,18,30.2	9,9,3,10	8,[11]
	16,18	11			2	

TABLE 1

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

Item 3e - STR Results

MJJEY	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
MQHYGV	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
MW8GWR	Fusion 5C					
	10,12,13	17,19,23	10,14	[15],16,19	[11],12,13	
3e	[8],[9],10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	[8],[11],12	10,11,12,13
	[12],13	[12],13,[15.2],16	[28],[29],32.2	11,16	X,[Y]	9,10,11,13
	19,20,[21]	9,10,16	5,[7],[17]		9,9.3,10	8,11
	16,18	11				
N3BKK6	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
N7T3DA	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,15,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16,17	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
N9GEEZ	PowerPlex® Fusion 6C (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
NGDC4N	PowerPlex® Fusion 5C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				

TABLE 1

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

## Item 3e - STR Results

NGVZN4	PowerPlex® 21 (STRmix)					
	10,12,13	17,19,23		15,16,19	11,12,13	12,17,18,20
3e	8,9,10,13	10,12,13,15		17,3,19,3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2		X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9,3,10	8,11
	16,18					
P4KAZM	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17,3,19,3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9,3,10	8,11
	16,18	11				
P9CEUQ	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17,3,19,3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9,3,10	8,11
	16,18	11			2	
PBHLCJ	PowerPlex® Fusion 6C (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17,3,19,3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9,3,10	8,11
	16,18	11	20	19		
PFVKTJ	PowerPlex® Fusion 6C (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17,3,19,3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9,3,10	8,11
	16,18	11	20	19		
PLJ8L3	PowerPlex® Fusion 6C (STRmix v 2.5.11)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17,3,19,3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9,3,10	8,11
	16,18	11	20	19		
PMU8HX	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17,3,19,3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9,3,10	8,11
	16,18	11	20	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 3e - STR Results

PNNVY8	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	[11],12,13	
3e	8,9,10,13	[10],[12],13,15	14,16,17	17.3,19.3,22,24	[8],[11],12,12	10,11,12,13
	[12],13,13,[14]	12,13,15.2,16	[28],[29],32.2,32.2	11,16	X,X,[Y]	9,10,11,13
	19,20,21	9,10,16	5,5,[7],[17]		9,9.3,10	8,11
	16,18	11				
PNPR94	Investigator® 24plex					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	NT
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	NT	NT	17,18,30.2	9,9.3,10	8,11
	16,18	11	NT	NT	NT	
PRRNUR	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
PWHZR9	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
PY7CTZ	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
Q2NYJZ	GlobalFiler™ (Euroformix)					
	10,[12],13	[17],19,23	10,14	[15],16,19	[11],12,13	
3e	[8],[9],10,13	[10],[12],13,15	14,[16],17	17.3,[19.3],[22],24	[8],[11],12,	10,11,[12],[13]
	[12],13,[14]	[12],13,[15.2],16	[28],[29],32.2	11,16	X,[Y]	[9],11,13
	19,20,[21]			17,[18],30.2	[9],9.3,10	8,11
	16,18	11			2	
QCQCYT	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	



TABLE 1

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

Item 3e - STR Results

QEJ6YH	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
QFDV4W	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	--
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	--	--	17,18,30.2	9,9.3,10	8,11
	16,18	11	--	--	2	
QVGMJ7	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,17,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16,17	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
R23WBF	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
R8C33F	GlobalFiler™ (Genemapper ID-x)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
RE4JGY	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
RLVJER	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

## Item 3e - STR Results

RWW77P	GlobalFiler™ (STRMIX)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
T6GYT7	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,19,30.2	8,9,9.3,10	8,11
	16,18	11			2	
THQAMM	Investigator® 24plex QS (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11				
TM2PR6	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	12,14,15,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16,17	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11,12			2	
TZQMVN	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
TZTCZL	Investigator® 24plex					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11				
U2YW LZ	PowerPlex® Fusion 6C (STRmix V2.5.11)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	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 3e - STR Results

UJY4FT	PowerPlex® Fusion 5C					
	10,12,13	[17],19,23	10,14	[15],16,19	[11],12,13	
3e	[8],[9],10,13	[10],[12],13,15	14,[16],17	17.3,[19.3],[22],24	[8],[11],12	10,11,[12],[13]
	[12],13,[14]	[12],13,[15.2],16	[28],[29],32.2	11,16	X,[Y]	[9],[10],11,13
	19,20,[21]	[9],10,16	5,[7],[17]		9,9.3,10	8,11
	16,18	11				
UMXH3H	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				
UT7LFB	GlobalFiler™ (STRmix)					
	10,[12],13	[17],19,23	10,14	[15],16,19	[11],12,13	
3e	[8],[9],10,13	[10],[12],13,15	14,[16],[17]	17.3,[19.3],[22],24	[8],12	10,11,[12],[13]
	[12],13,[14]	[12],13,[15.2],16	[28],[29],32.2	11,16	X,[Y]	[9],[10],11,13,
	19,20,[21]			17,[18],30.2	9,9.3,10	8,11
	16,[18]	11			2	
UTK9PD	GlobalFiler™					
	10,12,13	[17],19,23	10,14	[15],16,19	11,12,13	
3e	[8],[9],10,13	[10],[12],13,15	14,[16],17	17.3,[19.3],[22],24	[8],[11],12	10,11,[12],[13]
	[12],13,[14]	[12],13,[15.2],16	[28],[29],32.2	11,16	X,[Y]	[9],[10],11,13
	19,[20],[21]			17,[18],30.2	9,9.3,10	8,[11]
	16,[18]	11			2	
V8JEGM	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
VGAZML	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
VGPERA	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

## Item 3e - STR Results

VR8ZYP	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
VW3PHH	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
VYQ48R	PowerPlex® 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
VZKRM3	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	[12],13,13,[14]	12,13,15.2,16	28,29,32.2	11,16	X,X,[Y]	9,10,11,13
	19,20,[21]	9,10,16	5,[7],[17]		9,9.3,10	8,11
	16,18	ND				
WBHAFG	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
WD7N4Q	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
WMAX9V	PowerPlex® 21 (STRmix v2.8)					
	10,11,11.2,12,13	16,17,18,19,22,23		14,15,16,17,18,19	10,11,12,13	11,12,17,18,20
3e	7,8,9,10,13	9,10,11,12,13,15		17.3,18.3,19.3,21.2,24	7,8,9,10,11,12	10,11,12,13
	11,12,13,14	12,13,14.2,15.2,16	27,28,29,31.2,32.2		X,Y	8,9,10,11,12,13
	18,19,20,21	9,10,16	5,7,16,17		8,9,9.3,10	7,8,11
	15,16,17,18					

TABLE 1

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

## Item 3e - STR Results

WUT2FX	PowerPlex® Fusion 6C (STRmix v2.5)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
WWFL2	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16,17	X,Y	9,10,11,13
	19,20,21			17,17.2,18,30,30.2,3 1.2	9,9.3,10	8,11
	16,18	11			2	
X3GC6J	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
X4DV8K	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
XDVG99	ESI17-Fast					
	10,12,13	17,19,23	10,14	15,16,19		
3e		10,12,13,15	14,16,17	17.3,19.3,22,24		10,11,12,13
	12,13,14	13,15.2,16	28,29,32.2	11,16	X,Y	
	19,20,21			17,18,30.2	9,9.3,10	
	16,18					
XKHZUW	PowerPlex® Fusion 6C (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
XWBQ99	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

## Item 3e - STR Results

Y4RERG	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
Y6NREA	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
YCMJKH	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
YEMWXA	Identifiler® Plus					
		17,19,23		15,16,18,19	11,12,13	
3e	8,9,10,13	10,12,13,15			8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2		X,Y	9,10,11,13
	19,20,21				9,9.3,10	8,11
	16,18					
YQG9EU	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
YRF9FF	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
YVXBLZ	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,12,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,12,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

Item 3e - STR Results

Z2Y6W7	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
Z6A7WQ	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
Z6G6E8	GlobalFiler™					
	10,[12],13	[17],[19],23	10,14	[15],16,19	[11],12,13	
3e	[8],[9],10,13	[10],[12],13,15	14,[16],17	17.3,[19.3],[22],24	[8],[11],12	10,11,[12],[13]
	[12],13,[14]	[12],13,[15.2],16	[28],[29],32.2	11,16	X,[Y]	[9],[10],11,13
	19,[20],[21]			17,[18],30.2	[9],9.3,[10]	8,[11]
	16,18	11			2	
Z7CUCA	Identifiler® Plus					
		17,19,23		15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15			8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2		X,Y	9,10,11,13
	19,20,21				9,9.3,10	8,11
	16,18					
Z8NKLD	Investigator® 24plex (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11				
ZQZCLU	PowerPlex® Fusion 6C (STRmix V2.5.11)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
3e	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
ZYANW7	ESI-17					
	10,12,13	17,19,23	10,14	15,16,19		
3e		10,12,13,15	14,16,17	17.3,19.3,22,24		10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	
	19,20,21			17,18,30.2	9,9.3,10	
	16,18					

TABLE 1

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

## Item 3sp - STR Results

22FFB6	GlobalFiler™					
		12,12	17,17	10,14	15,19	11,11
	3sp	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
	16,16	11			2	
243ZFA	GlobalFiler™ (STRmix)					
		12	17	10,14	15,19	11
	3sp	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
	16	11			2	
2B2PVT	PowerPlex® Fusion 6C					
		12	17	10,14	15,19	11
	3sp	8,9	10,12	14,16	17,3,19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21	9	7,17	18	9 8
	16	11	20	19		
2EMAZW	GlobalFiler™ (STRmix)					
		12	17	10,14	15,18,19	11
	3sp	8,9	10,12	14,15,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
	16	11			2	
2G7N4W	GlobalFiler™ (STRmix)					
		12	17	10,14	15,18,19	11
	3sp	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,17	X,Y 9,10
		19,21			18	6,9 8
	16	11			2	
2KMVL6	Investigator® 24plex QS					
		12,12	17,17	10,14	15,19	11,11 N/A
	3sp	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21	N/A	N/A	18,18	9,9 8,8
	16,16	11	N/A	N/A	N/A	
2V8ZYW	PowerPlex® Fusion					
		12,12	17,17	10,14	15,19	11,11
	3sp	8,9	10,12	14,16	19,3,22	8,11 [11],12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21	9,9	7,17		9,9 8,8
	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 3sp - STR Results

2V9RVJ	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
2XDHZD	Investigator® 24plex (STRmix)					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11				
36VDEL	PowerPlex® Fusion 6C (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
38Y4HF	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
3AMFJ8	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
3DYMHQ	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
3GMYJG	GlobalFiler™					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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 3sp - STR Results

3JB9V4	GlobalFiler™						
		[9],12	17	10,14	15,[18],19	11	
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21			18	9	8
	16	11			2		
3XAFMD	GlobalFiler™ (STRmix)						
		12	17	10,14	15,19	11	
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21			18	9	8
	16	11			2		
3ZDB8G	GlobalFiler™						
		12	17	10,14	15,19	11	
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21			18	9	8
	16	11			2		
43KQF8	PowerPlex® Fusion						
		12	17	10,14	15,19	11	
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21	9	7,17		9	8
	16	11					
46MT4N	PowerPlex® Fusion						
		NR	NR	NR	NR	NR	
	3sp	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR
	NR	NR					
47HAFK	PowerPlex® Fusion 6C						
		12	17	10,14	15,19	11	
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21	9	7,17	18	9	8
	16	11	20	19			
4C9LG9	PowerPlex® Fusion						
		12	17	10,14	15,19	11	
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21	9	7,17		9	8
	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 3sp - STR Results

4DEBB6	PowerPlex® Fusion 5C					
	10,12,13	--	10,14	15,16,19	11,12,13	--
3sp	8,9,10,13	10,12,13,15	--	--	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	--	9,9.3,10	8,11
	16,18	11	--	--	--	
4FMGVK	GlobalFiler™					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
4HEFAJ	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
4N4XPF	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
4Q42G3	GlobalFiler™ (STRmix)					
	12	17,23	10,14	15,19	11	
3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2,16	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
4ZPCK3	Investigator® 24plex QS					
	12,12	17,17	10,14	15,19	11,11	N/A
3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	N/A	N/A	18,18	9,9	8,8
	16,16	11	N/A	N/A	N/A	
666YZT	GlobalFiler™ (STRmix)					
	12	17	10,14	15,18,19	11	
3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	10,11			2	

TABLE 1

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

## Item 3sp - STR Results

6DEQ7G	GlobalFiler™					
		12,12	17,17	10,14	15,19	11,11
3sp		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
		16,16	11			2
6G63LL	GlobalFiler™ (STRmix)					
		12	17	10,14	15,19	11
3sp		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		16	11			2
6NW8Z9	GlobalFiler™					
		12	17	10,14	15,19	11
3sp		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		16	11			2
6PKL6K	GlobalFiler™ (Euroformix)					
		12	17	10,14	15,19	11
3sp		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		16	11			2
6QF68L	GlobalFiler™ (STRmix)					
		12	17	10,14	15,19	11
3sp		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		16	11			2
73DKQA	Investigator® 24plex QS (STRMix)					
		12	17	10,14	15,19	11
3sp		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		16	11			
79EL83	GlobalFiler™ IQC					
		12,12	17,17	10,14	15,19	11,11
3sp		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
		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 3sp - STR Results

7CYQLR	GlobalFiler™ (strmix)					
	12	17	10,14	15,18,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,17	X,Y	9,10
	19,21			18	9	8
	16	11			2	
7EL3MH	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
7HN4P2	GlobalFiler™ (STRmix)					
	12	17,23	10,14	15,19	11	
3sp	8,9	10,12	14,16	17,3,19,3,22	8,11	12,13
	12,14	12,15.2	28,29	11,16	X,Y	9,10,11
	19,21			18	9	8
	16	11			2	
7PK6JZ	GlobalFiler™					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
7QWKDZ	GlobalFiler™					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
7TL8PN	PowerPlex® Fusion 6C (STRmix)					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
7Z4DQ2	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	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 3sp - STR Results

7Z9UNZ	GlobalFiler™ (STRmix)					
	10,12	17,19	10,14	15,19	11,13	
3sp	8,9	10,12	14,16	19,3,22	8,11	10,12,13
	12,14	12,15.2	28,29,32.2	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
82XHHF	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
84YLA3	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
86DX4Z	PowerPlex® Fusion 6C (STRmix 2.9.0)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
88YW63	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
89GNG8	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
8CFZC8	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	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 3sp - STR Results

8CRY8G	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
8G7AM7	PowerPlex® Fusion					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
8M9QPY	Investigator® 24plex QS					
	12,12	17,17	10,14	15,19	11,11	N/A
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	N/A	N/A	18,18	9,9	8,8
	16,16	11	N/A	N/A	N/A	
8TZQC8	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
8V87KX	Investigator® 24plex QS					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11				
99AWZB	GlobalFiler™					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
9MMFDJ	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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 3sp - STR Results

9N6J74	PowerPlex® Fusion 5C					
	12	17	10,14	15,16,19	11	
3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
9R3ZJX	GlobalFiler™ (STRmix)					
	12	17,19	10,14	15,19	11	
3sp	8,9	10,12,13	14,16	17.3,19.3,22,24	8,11	12,13
	12,14	12,15.2	28,29,32.2	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
9WFKR4	PowerPlex® Fusion					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
A4B66J	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
A4R76Z	GlobalFiler™ (True Allele)					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
A7YG7A	GlobalFiler™					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
A944JE	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	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 3sp - STR Results

A9R8CP	GlobalFiler™ (STRmix)					
	12	17	10,14	15,18,19	11	
3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18,19	9	8
	16	10,11			2	
AC8WFY	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
AG2VPM	GlobalFiler™ (STRmix)					
	12	17	10,14	15,18,19	11,12	
3sp	8,9	10,12	14,16	19.3,22,23	8,11	12,13
	12,14	12,13.2,15.2	28,29	16,17	X,Y	9,10
	19,21			18	9	8
	16	11			2	
AULEKC	GlobalFiler™					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29,32.2	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
AWQ4P7	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
BCRBXF	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
BL9Q3V	GlobalFiler™					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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 3sp - STR Results

BNZJ9	GlobalFiler™					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
BQKPHV	GlobalFiler™ (STRmix)					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
BRYUE9	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
BUC2WE	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
C62UJW	PowerPlex® Fusion 5C (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
CE7U2B	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
CEM97Y	PowerPlex® Fusion					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	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 3sp - STR Results

CK947H	PowerPlex® Fusion 6C (STRmix)					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
CLLKH	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,12	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11,11			2,F	
CPYHNX	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
D2EP96	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
D37J8U	GlobalFiler™					
	12,12	17,17	10,14	15,[18],19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
DAAMXT	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
DE3RNC	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	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 3sp - STR Results

DEMBUJ	PowerPlex® Fusion					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17		9,9	8,8
	16,16	11				
DQUEWR	GlobalFiler™					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
DVQZNV	GlobalFiler™					
	12	17	10,14	15,16,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	11,16	X,Y	9,10
	19,21			17,18	9	8
	16	11			2	
EBEFMK	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
EJ9HT3	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
EJQRHX	PowerPlex® Fusion					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
EKMAJY	GlobalFiler™					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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 3sp - STR Results

EMAN99	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
EN72V2	GlobalFiler™					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
EPCW7R	PowerPlex®					
	12,12	17,17	10,14	15,19		
3sp		10,12	14,16	19,3,22		12,13
	12,14	12,15.2	28,29	16,16	X,Y	
	19,21			18,18	9,9	
	16,16					
ERHAUK	GlobalFiler™ (STRmix)					
	12	17	10,14	15,18,19	11	
3sp	8,9	10,12,13	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16,17	11			2	
EX8PMX	PowerPlex® Fusion 5C					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
EZYQNF	PowerPlex® Fusion 6C (STRmix V2.5.11)					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
F3HZD8	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	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 3sp - STR Results

FDYTKU	GlobalFiler™ (STRmix)						
		12,12	17,17	10,14	15,19	11,11	
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
		12,14	12,15.2	28,29	16,16	X,Y	9,10
		19,21			18,18	9,9	8,8
	16,16	11			2		
FPBCZ4	GlobalFiler™						
		12	17,19	10,14	15,18,19	11	
	3sp	8,9	10,12	14,16	19.3,22,24	8,11,12	12,13
		12,14	12,15.2	28,29,32.2	16	X,Y	9,10
		19,21			18	9	8
	16	11			2		
FPWPPG	PowerPlex® Fusion						
		12,12	17,17	10,14	15,19	11,11	
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
		12,14	12,15.2	28,29	16,16	X,Y	9,10
		19,21	9,9	7,17		9,9	8,8
	16,16	11					
FR3BE2	GlobalFiler™ (STRmix)						
		12	17	10,14	15,19	11	
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21			18	9	8
	16	11			2		
G3AMP9	GlobalFiler™ (STRmix)						
		12	17	10,14	15,19	11	
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21			18	9	8
	16	11			2		
GGEVQP	GlobalFiler™						
		12,12	17,17	10,14	15,[18],19	11,11	
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
		12,14	12,15.2	28,29	16,16	X,Y	9,10
		19,21			18,18	9,9	8,8
	16,16	11			2		
GGW79	GlobalFiler™						
		12	17	10,14	15,19	11	
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21			18	9	8
	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 3sp - STR Results

GKRL7T	GlobalFiler™						
	12	17	10,14	15,19	11		
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10	
	19,21			18	9	8	
	16	11			2		
GUH7CQ	GlobalFiler™ (TrueAllele)						
	12	17	10,14	15,19	11		
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10	
	19,21			18	9	8	
	16	11			2		
GZRDXP	GlobalFiler™ (STRmix)						
	10,12	17	10,14	15,19	11		
	3sp	8,9,13	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	11,16	X,Y	9,10	
	19,21			18	9,9.3	8	
	16	11			2		
H22MN2	GlobalFiler™						
	12	17	10,14	15,19	11		
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10	
	19,21			18	9	8	
	16	11			2		
H3UGMQ	GlobalFiler™						
	12,12	17,17	10,14	15,[18],19	11,11		
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10	
	19,21			18,18	9,9	8,8	
	16,16	11			2		
H8Q64X	GlobalFiler™ (STRmix)						
	12	17	10,14	15,19	11		
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10	
	19,21			18	9	8	
	16	11			2		
HDT9UW	GlobalFiler™						
	12	17	10,14	15,19	11		
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10	
	19,21			18	9	8	
	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 3sp - STR Results

HHLDMZ	GlobalFiler™ (STRmix)						
		12	17	10,14	15,19	11	
	3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21			18	9	8
	16	11			2		
HMJWMD	PowerPlex® Fusion						
		12,12	17,17	10,14	15,19	11,11	
	3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
		12,14	12,15.2	28,29	16,16	X,Y	9,10
		19,21	9,9	7,17		9,9	8,8
	16,16	11					
HNQCW6	PowerPlex® Fusion 5C						
		12	17	10,14	15,19	11	
	3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21	9	7,17		9	8
	16	11					
HXXURG	GlobalFiler™ (STRmix)						
		12	17	10,14	15,18,19	11	
	3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
		12,14	12,13.2,15.2	28,29	16,17	X,Y	9,10
		19,21			17,2,18	9	8
	14,16	11			2		
HZ74LY	GlobalFiler™ (STRmix)						
		12	17	10,14	15,19	11	
	3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21			18	9	8
	16	11			2		
J3NN69	PowerPlex® 21 (STRmix v2.8)						
		12,12	17,17		15,19	11,11	12,18
	3sp	8,9	10,12		19,3,22	8,11	12,13
		12,14	12,15.2	28,29		X,Y	9,10
		19,21	9,9	7,17		9,9	8,8
	16,16						
J4EU78	GlobalFiler™ (GeneMapper ID-X v.1.5)						
		12,12	17,17	10,14	15,19	11,11	
	3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
		12,14	12,15.2	28,29	16,16	X,Y	9,10
		19,21			18,18	9,9	8,8
	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 3sp - STR Results

J8L6JN	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
JA8TVN	Investigator® 24plex QS					
	[10],12	17,[23]	10,14	15,[16],19	11,[12]	N/A
3sp	8,9	10,12,[13]	14,16	19,3,22,[24]	8,11,[12]	[11],12,13
	12,[13],14	12,15.2	28,29,[32.2]	16	X,Y	9,10,[13]
	19,[20],21	N/A	N/A	[17],18	9,[9.3]	8
	16,[18]	11	N/A	N/A	N/A	
JD86QN	Investigator® 24plex QS					
	12,12	17,17	10,14	15,19	11,11	n/a
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	n/a	n/a	18,18	9,9	8,8
	16,16	11	n/a	n/a	n/a	
JL3ZVD	GlobalFiler™ (STRmix)					
	12	17	10,14	15,18,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29,30	16,17	X,Y	9,10
	19,21			18	9	8
	16	10,11			2	
JN8NCN	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
JP2EH4	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
JURVQM	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	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 3sp - STR Results

JV6FHX	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
JY6NPT	PowerPlex® Fusion					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
K69U3B	PowerPlex® Fusion 6C (STRmix V2.5.11)					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
KFQJUN	GlobalFiler™					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11				
KG2KGM	GlobalFiler™ (Genemapper ID-x)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
KPR2U6	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
KR6QEV	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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 3sp - STR Results

KTZAGW	GlobalFiler™ (STRmix)	12	17	10,14	15,19	11	
	3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21			18	9	8
		16	11			2	
L26GUB	GlobalFiler™ (STRmix)	12	17	10,14	15,18,19	11	
	3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21			18	9	8
		16	11			2	
L4AB8M	GlobalFiler™ (STRmix)	12,12	17,17	10,14	15,19	11,11	
	3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
		12,14	12,15.2	28,29	16,16	X,Y	9,10
		19,21			18,18	9,9	8,8
		16,16	11			2	
L4ELAK	GlobalFiler™ (STRmix)	12	17	10,14	15,19	11	
	3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21			18	9	8
		16	11			2	
LFMAK4	PowerPlex® Fusion 6C (STRmix)	12	17	10,14	15,19	11	
	3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21	9	7,17	18	9	8
		16	11	20	19		
LHCM3L	GlobalFiler™	12	17	10,14	15,19	11	
	3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21			18	9	8
		16	11			2	
LV48P4	GlobalFiler™	12	17	10,14	15,19	11	
	3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21			18	9	8
		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 3sp - STR Results

LVE7JD	GlobalFiler™ (STRmix)					
	12	17	10,14	15,18,19	11,12	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	10,12,15.2	28,29	16,17	X,Y	9,10,11
	19,21			18,19	9	8
	16	11			2	
LWLUF4	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
LXNEPQ	GlobalFiler™					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
LY3HK4	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
M482W2	GlobalFiler™					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
M4U6UH	NGM SElect					
	12,12	17,17	10,14	15,[18],19		
3sp		10,12	14,16	19,3,22		12,13
	12,14	12,15.2	28,29	16,16	X,Y	
	19,21			18,18	9,9	
	16,16					
MDBXYJ	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,[Y]	9,10
	19,21			18,18	9,9	8,8
	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 3sp - STR Results

MJEEY	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
MQHYGV	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
MW8GWR	Fusion 5C					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17		9,9	8,8
	16,16	11				
N3BKK6	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
N7T3DA	GlobalFiler™ (STRmix)					
	12	17	10,14	15,18,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,17	X,Y	9,10
	19,21			18	9	8
	16	11			2	
N9GEEZ	PowerPlex® Fusion 6C (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
NGDC4N	PowerPlex® Fusion 5C					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	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 3sp - STR Results

NGVZN4	PowerPlex® 21 (STRmix)					
	12,12	17,17		15,19	11,11	12,18
3sp	8,9	10,12		19,3,22	8,11	12,13
	12,14	12,15.2	28,29		X,Y	9,10
	19,21	9,9	7,17		9,9	8,8
	16,16					
P4KAZM	PowerPlex® Fusion					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
P9CEUQ	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
PBHLCJ	PowerPlex® Fusion 6C (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	19		
PFVKTJ	PowerPlex® Fusion 6C (STRmix)					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
PLJ8L3	PowerPlex® Fusion 6C (STRmix v 2.5.11)					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
PMU8HX	PowerPlex® Fusion 6C					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	18	9	8
	16	11	20	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 3sp - STR Results

PNNVY8	PowerPlex® Fusion						
	12,12	17,17	10,14	15,19	11,11		
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10	
	19,21	9,9	7,17		9,9	8,8	
	16,16	11					
PNPR94	Investigator® 24plex						
	12	17	10,14	15,19	11	NT	
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10	
	19,21	NT	NT	18	9	8	
	16	11	NT	NT	NT		
PRRNUR	GlobalFiler™ (STRmix)						
	12	17	10,14	15,19	11		
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10	
	19,21			18	9	8	
	16	11			2		
PWHZR9	GlobalFiler™						
	12	17	10,14	15,19	11		
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10	
	19,21			18	9	8	
	16	11			2		
PY7CTZ	PowerPlex® Fusion 6C						
	12	17	10,14	15,19	11		
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10	
	19,21	9	7,17	18	9	8	
	16	11	20	19			
Q2NYJZ	GlobalFiler™ (Euroformix)						
	12	17	10,14	15,19	11		
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10	
	19,21			18	9	8	
	16	11			2		
QCQCYT	GlobalFiler™						
	12	17	10,14	15,19	11		
	3sp	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10	
	19,21			18	9	8	
	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 3sp - STR Results

QEJ6YH	GlobalFiler™					
		12,12	17,17	10,14	15,[18],19	11,11
3sp		8,9	10,12	14,16	19.3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
		16,16	11			2
QFDV4W	GlobalFiler™					
		12,12	17,17	10,14	15,19	11,11 --
3sp		8,9	10,12	14,16	19.3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21	--	--	18,18	9,9 8,8
		16,16	11	--	--	2
QVGMJ7	GlobalFiler™ (STRmix)					
		12	17	10,14	15,16,18,19	11
3sp		8,9	10,12	14,16	19.3,22	8,11 12,13
		12,14	12,15.2	28,29	16,17	X,Y 9,10
		19,21			18	9 8
		16	11			2
R23WBF	GlobalFiler™ (STRmix)					
		12	17	10,14	15,19	11
3sp		8,9	10,12	14,16	19.3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		16	11			2
R8C33F	GlobalFiler™ (Genemapper ID-x)					
		12	17	10,14	15,19	11
3sp		8,9	10,12	14,16	19.3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		16	11			2
RE4JGY	GlobalFiler™ (STRmix)					
		12	17	10,14	15,19	11
3sp		8,9	10,12	14,16	19.3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		16	11			2
RLVJER	GlobalFiler™					
		12	17	10,14	15,19	11
3sp		8,9	10,12	14,16	19.3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		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 3sp - STR Results

RWW77P	GlobalFiler™ (STRMIX)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
T6GYT7	GlobalFiler™ (STRmix)					
	12	17	10,14	15,18,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,17	X,Y	9,10
	19,21			18	9	8
	16	10,11			2	
THQAMM	Investigator® 24plex QS (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11				
TM2PR6	GlobalFiler™ (STRmix)					
	12	17	10,14	15,18,19	11	
3sp	8,9	10,12	11,14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29,30	14,16,17	X,Y	9,10
	19,21			18	9	8
	16	11			2	
TZQMVN	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
TZTCZL	Investigator® 24plex					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11				
U2YW LZ	PowerPlex® Fusion 6C (STRmix V2.5.11)					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	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 3sp - STR Results

UJY4FT	PowerPlex® Fusion 5C					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
UMXH3H	PowerPlex® Fusion					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17		9	8
	16	11				
UT7LFB	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
UTK9PD	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
V8JEGM	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
VGAZML	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
VGPERA	GlobalFiler™					
	[9],12	17	10,14	15,[18],19	[9],11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	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 3sp - STR Results

VR8ZYP	GlobalFiler™					
		12,12	17,17	10,14	15,19	11,11
	3sp	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
	16,16	11			2	
VW3PHH	GlobalFiler™					
		12	17	10,14	15,19	11
	3sp	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
	16	11			2	
VYQ48R	PowerPlex® 6C					
		12	17	10,14	15,19	11
	3sp	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21	9	7,17	18	9 8
	16	11	20	19		
VZKRM3	PowerPlex® Fusion					
		12,12	17,17	10,14	15,19	11,11
	3sp	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21	9,9	7,17		9,9 8,8
	16,16	11				
WBHAFG	GlobalFiler™					
		12	17	10,14	15,19	11
	3sp	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
	16	11			2	
WD7N4Q	PowerPlex® Fusion 6C					
		12	17	10,14	15,19	11
	3sp	8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21	9	7,17	18	9 8
	16	11	20	19		
WMAX9V	PowerPlex® 21 (STRmix v2.8)					
		12,12	17,17		15,19	11,11 12,18
	3sp	8,9	10,12		19,3,22	8,11 12,13
		12,14	12,15.2	28,29		X,Y 9,10
		19,21	9,10	7,17		9,9 8,8
	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 3sp - STR Results

WUT2FX	PowerPlex® Fusion 6C (STRmix v2.5)						
		12,12	17,17	10,14	15,19	11,11	
	3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
		12,14	12,15.2	28,29	16,16	X,Y	9,10
		19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19			
WWFL2	GlobalFiler™ (STRmix)						
		12	17	10,14	15,16,18,19,20	11	
	3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
		12,14	12,15.2	28,29	16,17	X,Y	9,10
		19,21			18	9	8
	14,16	10,11			2		
X3GC6J	GlobalFiler™ (STRmix)						
		12	17	10,14	15,19	11	
	3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21			18	9	8
	16	11			2		
X4DV8K	GlobalFiler™ (STRmix)						
		12	17	10,14	15,19	11	
	3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21			18	9	8
	16	11			2		
XDVG99	ESI17-Fast						
		12,12	17,17	10,14	15,19		
	3sp		10,12	14,16	19,3,22		12,13
		12,14	12,15.2	28,29	16,16	X,Y	
		19,21			18,18	9,9	
	16,16						
XKHZUW	PowerPlex® Fusion 6C (STRmix)						
		12,12	17,17	10,14	15,19	11,11	
	3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
		12,14	12,15.2	28,29	16,16	X,Y	9,10
		19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19			
XWBQ99	GlobalFiler™						
		12	17	10,14	15,19	11	
	3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
		12,14	12,15.2	28,29	16	X,Y	9,10
		19,21			18	9	8
	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 3sp - STR Results

Y4RERG	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
Y6NREA	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
YCMJKH	GlobalFiler™ (STRmix)					
	12	17	10,14	15,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21			18	9	8
	16	11			2	
YEMWXA	Identifiler® Plus					
		17,17		15,18,19	11,11	
3sp	8,9	10,12			8,11	12,13
	12,14	12,15.2	28,29		X,Y	9,10
	19,21				9,9	8,8
	16,16					
YQG9EU	PowerPlex® Fusion 6C					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21	9,9	7,17	18,18	9,9	8,8
	16,16	11	20	19		
YRF9FF	GlobalFiler™					
	12,12	17,17	10,14	15,19	11,11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,16	X,Y	9,10
	19,21			18,18	9,9	8,8
	16,16	11			2	
YVXBLZ	GlobalFiler™ (STRmix)					
	12	17	10,14	15,18,19	11	
3sp	8,9	10,12	14,16	19,3,22	8,11	12,13
	12,14	12,15.2	28,29	16,17	X,Y	9,10
	19,21			18,19	9	8
	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 3sp - STR Results

Z2Y6W7	GlobalFiler™					
		12,12	17,17	10,14	15,[18],19	11,11
3sp		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
		16,16	11			2
Z6A7WQ	GlobalFiler™ (STRmix)					
		12	17	10,14	15,19	11
3sp		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16	X,Y 9,10
		19,21			18	9 8
		16	11			2
Z6G6E8	GlobalFiler™					
		12,12	17,17	10,14	15,19	11,11
3sp		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
		16,16	11			2
Z7CUCA	Identifiler® Plus					
			17,17		15,19	11,11
3sp		8,9	10,12			8,11 12,13
		12,14	12,15.2	28,29		X,Y 9,10
		19,21				9,9 8,8
		16,16				
Z8NKLD	Investigator® 24plex (STRmix)					
		12,12	17,17	10,14	15,19	11,11
3sp		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21			18,18	9,9 8,8
		16,16	11			
ZQZCLU	PowerPlex® Fusion 6C (STRmix V2.5.11)					
		12,12	17,17	10,14	15,19	11,11
3sp		8,9	10,12	14,16	19,3,22	8,11 12,13
		12,14	12,15.2	28,29	16,16	X,Y 9,10
		19,21	9,9	7,17	18,18	9,9 8,8
		16,16	11	20	19	
ZYANW7	ESI-17					
		12,12	17,17	10,14	15,19	
3sp			10,12	14,16	19,3,22	12,13
		12,14	12,15.2	28,29	16,16	X,Y
		19,21			18,18	9,9
		16,16				

TABLE 1

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

## Item 4 - STR Results

22FFB6	GlobalFiler™					
		10,12,13	17,19,23	10,14	(15),16,19	11,12,13
4		(8),(9),10,13	(10),(12),13,15	14,(16),(17)	17.3,19.3,(22),24	(8),(11),12
		(12),13,(14)	(12),13,(15.2),16	(28),(29),32.2	11,16	X,(Y)
		19,20,(21)			17,18,30.2	9,9.3,10
		16,(18)	11			8,(11)
						2
243ZFA	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
		16,18	11			8,11
						2
26BG48	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
		16,18	11			8,11
						2
2B2PVT	PowerPlex® Fusion 6C					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10
		16,18	11	20	19	8,11
2EMAZW	GlobalFiler™ (STRmix)					
		10,12,13,14	17,19,23	10,14	15,16,19	11,12,13
4		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
		16,18	11			8,11
						2
2G7N4W	GlobalFiler™ (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16,17	X,Y
		19,20,21			17,17.2,18,30.2	9,9.3,10
		16,18	11			8,11
						2
2KMVL6	Investigator® 24plex QS					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21	N/A	N/A	17,18,30.2	9,9.3,10
		16,18	11	N/A	N/A	8,11
						N/A

TABLE 1

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

Item 4 - STR Results

2V8ZYW	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,X,[Y]	9,10,11,13
	19,20,21	9,10,16	5,5,[7],[17]		9,9.3,10	8,11
	16,16,[18]	11				
2V9RVJ	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
2XDHZD	Investigator® 24plex (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11				
36VDEL	PowerPlex® Fusion 6C (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
38Y4HF	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
3AMFJ8	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
3DYMHQ	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	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 4 - STR Results

3GMYJG	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
		16,18	11			2
3JB9V4	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
		16,18	11			2
3XAFMD	GlobalFiler™ (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
		16,18	11			2
3ZDB8G	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
		16,18	11			2
43KQF8	PowerPlex® Fusion					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21	9,10,16	5,7,17		9,9.3,10 8,11
		16,18	11			
468ER8	GlobalFiler™ (LRmix Studio)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
		16,18	11			2
46MT4N	PowerPlex® Fusion					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4		8,9,10,13	10,12,13,15	14,16,17	inc	8,11,12 10,11,12,13
		12,13,14	inc	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21	9,10,16	5,7,17		9,inc 8,11
		16,18	11			

TABLE 1

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

Item 4 - STR Results

47HAFK	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
4C9LG9	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				
4DEBB6	PowerPlex® Fusion 5C					
	12	17	10,14	15,19	11	--
4	8,9	10,12	14,16	19.3,22	8,11	12,13
	12,14	12,15.2	28,29	16	X,Y	9,10
	19,21	9	7,17	--	9	8
	16	11	--	--	--	
4FMGVK	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
4HEFAJ	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
4JK3MN	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	N/A
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	N/A	N/A	17,18,30.2	9,9.3,10	8,11
	16,18	11	N/A	N/A	2	
4N4XPF	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

Item 4 - STR Results

4Q42G3	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
4VY2B4	PowerPlex® Fusion 6c					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
4ZPCK3	Investigator® 24plex QS					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	N/A
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	N/A	N/A	17,18,30.2	9,9.3,10	8,11
	16,18	11	N/A	N/A	N/A	
666YZT	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16,17	X,Y	9,10,11,13
	16,19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
6BAZ2M	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	NA
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	NA	NA	17,18,30.2	9,9.3,10	8,11
	16,18	11	NA	NA	2	
6G63LL	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
6NW8Z9	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

## Item 4 - STR Results

6PKL6K	GlobalFiler™ (Euroformix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
6QF68L	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
73DKQA	Investigator® 24plex QS (STRMix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11				
79EL83	GlobalFiler™ IQC					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,[16,17]	17.3,19.3,22,24	[8,11],12	10,11,12,13
	[12],13,[14]	12,13,15.2,16	[28,29],32.2	[11],16	X,[Y]	9,10,11,13
	19,20,[21]			17,18,30.2	9,9.3,10	8,[11]
	16,[18]	11			2	
7CYQLR	GlobalFiler™ (strmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,12,13
	19,20,21			16.2,17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
7EL3MH	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
7HN4P2	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

Item 4 - STR Results

7LPA3L	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
	16,18	11			2	
7PK6JZ	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
	16,18	11			2	
7QWKDZ	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
	16,18	11			2	
7TL8PN	PowerPlex® Fusion 6C (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10
	16,18	11	20	19		
7Z4DQ2	GlobalFiler™					
		10,12,13	17,19,23	10,14	[15],[16],19	11,12,[13]
	4	[8],9,10,13	10,[12],13,15	14,[16],17	17.3,[19.3],22,24	[8],[11],12
		[12],13,[14]	12,13,15.2,16	[28],29,32.2	[11],16	X,[Y]
		19,20,[21]			17,18,30.2	9,[9.3],10
	16,[18]	11			2	
7Z9UNZ	GlobalFiler™ (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
	16,18	11			2	
82XHHF	PowerPlex® Fusion 6C					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10
	16,18	11	20	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 4 - STR Results

84YLA3	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
86DX4Z	PowerPlex® Fusion 6C (STRmix 2.9.0)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
88YW63	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
89GNG8	GlobalFiler™					
	10,12,12,13	17,17,19,23	10,10,14,14	15,16,19,19	11,11,12,13	
4	8,9,10,13	10,12,13,15	14,14,16,17	17.3,19.3,22,24	8,11,12,12	10,11,12,13
	12,13,13,14	12,13,15.2,16	28,29,32.2,32.2	11,16,16,16	X,X,X,Y	9,10,11,13
	19,19,20,21			17,18,18,30.2	9,9,9.3,10	8,8,8,11
	16,16,16,18	11			2	
8CFZC8	GlobalFiler™					
	10,12,13	17,19,23	10,14	(15),16,19	11,12,13	
4	(8),(9),10,13	(10),(12),13,15	14,(16),17	17.3,(19.3),(22),24	(8),(11),12	10,11,(12),(13)
	(12),13,(14)	(12),13,(15.2),16	(28),(29),32.2	11,16	X,(Y)	(9),(10),11,13
	19,20,(21)			17,18,30.2	9,9.3,10	8,11
	16,18	(11)			(2)	
8CRY8G	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
8G7AM7	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				

TABLE 1

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

Item 4 - STR Results

8GQDTK	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	N/A
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	N/A	N/A	17,18,30.2	9,9.3,10	8,11
	16,18	11	N/A	N/A	2	
8M9QPY	Investigator® 24plex QS					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	N/A
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	N/A	N/A	17,18,30.2	9,9.3,10	8,11
	16,18	11	N/A	N/A	N/A	
8TZQC8	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	[28],[29],32.2	[11],16	X,[Y]	9,10,11,13
	19,20,21	9,10,16	5,[7],[17]	17,18,30.2	9,9.3,10	8,[11]
	16,[18]	11	20	19		
8V87KX	Investigator® 24plex QS					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11				
92RQ2J	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	NA
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	NA	NA	17,18,30.2	9,9.3,10	8,11
	16,18	11	NA	NA	2	
99AWZB	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
9MMFDJ	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

## Item 4 - STR Results

9N6J74	PowerPlex® Fusion 5C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				
9R3ZJX	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
9WFKR4	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				
A4B66J	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
A4R76Z	GlobalFiler™					
	10,12,13	17,19,23	10,13.3,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
A7YG7A	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
A944JE	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	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 4 - STR Results

A9R8CP	GlobalFiler™ (STRmix)					
	10,12,13	17,19,22,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13,14
	12,13,14	12,13,15.2,16	28,29,32.2	11,16,17	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
AC8WFY	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
AG2VPM	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,17,19	11,12,13,14	
4	8,9,10,11,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	10,11			2	
AWQ4P7	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
BCRBXF	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
BL9Q3V	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
BNZJJ9	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

## Item 4 - STR Results

BQKPHV	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
BRYUE9	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
BUC2WE	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
C62UJW	PowerPlex® Fusion 5C (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				
CE7U2B	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
CEM97Y	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				
CK947H	PowerPlex® Fusion 6C (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	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 4 - STR Results

CLLKH	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,15	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
		16,18	11,F			2,F
CPYHN	PowerPlex® Fusion 6C					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10 8,11
		16,18	11	20	19	
D2EP96	GlobalFiler™ (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
		16,18	11			2
D37J8U	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
		16,18	11			2
DAAMXT	GlobalFiler™ (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
		16,18	11			2
DE3RNC	PowerPlex® Fusion 6C					
		10,12	17,19	10,14	15,16,19	11,12,13
4		8,9,13	10,12,15	14,16,17	19.3,22,24	8,11,12 10,11,12,13
		12,14	12,15.2	28,29,32.2	11,16	X,Y 9,10
		19,21	9,16	5,7,17	18,30.2	9,9.3,10 8,11
		16,18	11	20	19	
DEMBUJ	PowerPlex® Fusion					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21	9,10,16	5,7,17		9,9.3,10 8,11
		16,18	11			

TABLE 1

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

Item 4 - STR Results

DQUEWR	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
DVQZNV	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
EANCUD	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	N/A
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	N/A	N/A	17,18,30.2	9,9.3,10	8,11
	16,18	11	N/A	N/A	2	
EBEFMK	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2,31.2	9,9.3,10	8,11
	16,18	11			2	
EJ9HT3	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
EJQRHX	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				
EKMAJY	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

Item 4 - STR Results

EMAN99	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
EN72V2	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
EPCW7R	PowerPlex®					
	10,12,13	17,19,23	10,14	15,16,19		
4		10,12,13,15	14,16,17	17.3,19.3,22,24		10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	
	19,20,21			17,18,30.2	9,9.3,10	
	16,18					
ERHAUK	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,11,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12,13	10,11,12,13
	12,13,14	12,13,15.2,16,17.2	28,29,32.2	11,16,17	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
EX8PMX	PowerPlex® Fusion 5C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				
EZYQNF	PowerPlex® Fusion 6C (STRmix V2.5.11)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
F3HZD8	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

Item 4 - STR Results

FDYTKU	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
FPBCZ4	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
FPWPPG	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	[12],13,13,[14]	12,13,15.2,16	[28,29],32.2,32.2	11,16	X,X,[Y]	9,10,11,13
	19,20,21	9,10,16	5,5,[7,17]		9,9.3,10	8,11
	16,18	11				
FR3BE2	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
G3AMP9	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
GGEVQP	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
GGW79	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

## Item 4 - STR Results

GKRL7T	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
	16,18	11			2	
GUH7CQ	GlobalFiler™ (TrueAllele)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
	16,18	11			2	
GZRDXP	GlobalFiler™ (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
	16,18	11			2	
H22MN2	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
	16,18	11			2	
H3UGMQ	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
	16,18	11			2	
H8Q64X	GlobalFiler™ (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
	16,18	11			2	
HDT9UW	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
	16,18	11			2	

TABLE 1

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

Item 4 - STR Results

HHLDMZ	GlobalFiler™ (STRmix)						
		10,12,13	17,19,23	10,14	15,16,19	11,12,13	
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2		
HMJWMD	PowerPlex® Fusion						
		10,12,13	17,19,23	10,14	15,16,19	11,12,13	
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
		19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,16,[18]	11					
HNQCW6	PowerPlex® Fusion 5C						
		(10),12,(13)	17,(19,23)	10,14	15,16,19	11,(12,13)	
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
		12,13,14	12,13,15.2,16	(28,29),32.2	(11),16	X,(Y)	9,10,11,13
		19,(20,21)	9,(10,16)	5,7,17		9,(9.3,10)	8,(11)
	16,(18)	11					
HXXURG	GlobalFiler™ (STRmix)						
		10,12,13	17,19,23	10,14	15,16,19	11,12,13	
	4	8,9,10,11,13,14	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2		
HZ74LY	GlobalFiler™ (STRmix)						
		10,12,13	17,19,23	10,14	15,16,19	11,12,13	
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2		
J3NN69	PowerPlex® 21 (STRmix 2.8)						
		10,12,13	17,19,23		15,16,19	11,12,13	12,17,18,20
	4	8,9,10,13	10,12,13,15		17.3,19.3,22,24	8,11,12	10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2		X,Y	9,10,11,13
		19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18						
J4EU78	GlobalFiler™ (GeneMapper ID-X v1.5)						
		10,12,13	17,19,23	10,14	15,16,19	11,12,13	
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2		



TABLE 1

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

## Item 4 - STR Results

J8L6JN	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
J8XYYN	PowerPlex® Fusion 6C (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
JA8TVN	Investigator® 24plex QS					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	N/A
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	N/A	N/A	17,18,30.2	9,9.3,10	8,11
	16,18	11	N/A	N/A	N/A	
JD86QN	Investigator® 24plex QS					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	n/a
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	n/a	n/a	17,18,30.2	9,9.3,10	8,11
	16,18	11	n/a	n/a	n/a	
JL3ZVD	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,17,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16,17	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
JN8NCN	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
JP2EH4	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

## Item 4 - STR Results

JTKDRR	GlobalFiler™ CASEWORK					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3	8,11
	16,18	11			2	
JURVQM	GlobalFiler™					
	[10],12,[13]	17,[19],[23]	10,14	[15],[16],19	11,[12],[13]	
4	8,9,10,13	10,12,13,15	14,[16],[17]	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,[14]	12,13,15.2,16	28,[29],32.2	[11],16	X,[Y]	9,10,11,13
	19,[20],[21]			[17],18,[30.2]	9,[9.3],[10]	8,[11]
	16,[18]	11			2	
JV6FHX	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
JY6NPT	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				
K69U3B	PowerPlex® Fusion 6C (STRmix V2.5.11)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
KBY6C9	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	NA
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	NA	NA	17,18,30.2	9,9.3,10	8,11
	16,18	11	NA	NA	2	
KFQJUN	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11				

TABLE 1

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

Item 4 - STR Results

KG2KGM	GlobalFiler™ (Genemapper ID-x)						
	10,12,13	17,19,23	10,14	15,16,19	11,12,13		
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13	
	19,20,21			17,18,30.2	9,9.3,10	8,11	
	16,18	11			2		
KPR2U6	GlobalFiler™ (STRmix)						
	10,12,13	17,19,23	10,14	15,16,19	11,12,13		
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13	
	19,20,21			17,18,30.2	9,9.3,10	8,11	
	16,18	11			2		
KPVQAN	GlobalFiler™ IQC						
	10,12,13	17,19,23	10,14	15,16,19	11,12,13		
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13	
	19,20,21			17,18,30.2	9,9.3,10	8,11	
	16,18	11			2		
KR6QEV	GlobalFiler™ (STRmix)						
	10,12,13	17,19,23	10,14	15,16,19	11,12,13		
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13	
	19,20,21			17,18,30.2	9,9.3,10	8,11	
	16,18	11			2		
KTZAGW	GlobalFiler™ (STRmix)						
	10,12,13	17,19,23	10,14	15,16,19	11,12,13		
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13	
	19,20,21			17,18,30.2	9,9.3,10	8,11	
	16,18	11			2		
L26GUB	GlobalFiler™ (STRmix)						
	10,12,13	17,19,23	10,14	15,16,19	11,12,13		
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13	
	19,20,21			17,18,30.2	9,9.3,10	8,11	
	16,18	11			2		
L4AB8M	GlobalFiler™ (STRmix)						
	10,12,13	17,19,23	10,14	15,16,19	11,12,13		
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13	
	19,20,21			17,18,30.2	9,9.3,10	8,11	
	16,18	11			2		

TABLE 1

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

Item 4 - STR Results

L4ELAK	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
LFMAK4	PowerPlex® Fusion 6C (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
LHCM3L	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
LQPQV7	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	N/A
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	N/A	N/A	17,18,30.2	9,9.3,10	8,11
	16,18	11	N/A	N/A	2	
LV48P4	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
LVE7JD	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,17,19	11,12,13	
4	8,9,10,11,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,30,32.2	11,16,17	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
LWLUF4	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

Item 4 - STR Results

LXNEPQ	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
LY3HK4	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
M482W2	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
M4U6UH	NGM SElect					
	10,12,13	17,19,23	10,14	15,16,19		
4		10,12,13,15	14,16,17	17.3,19.3,22,24		10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	
	19,20,21			17,18,30.2	9,9.3,10	
	16,18					
MDBXYJ	GlobalFiler™					
	[10],12,[13]	17,19,[23]	10,14	[15],16,19	11,12,[13]	
4	8,9,10,13	10,12,13,15	14,16,[17]	17.3,19.3,22,24	[8],[11],12	10,11,12,13
	[12],13,[14]	12,13,15.2,16	[28],[29],32.2	[11],16	X,[Y]	9,10,11,13
	19,[20],[21]			[17],18,[30.2]	9,9.3,10	8,[11]
	16,[18]	11			2	
MJJEY	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			18,30.2	9,9.3,10	8,11
	16,18	11			2	
MQHYGV	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

## Item 4 - STR Results

MW8GWR	Fusion 5C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,[11]
	16,18	11				
N3BKK6	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
N7T3DA	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
N9GEEZ	PowerPlex® Fusion 6C (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
NGDC4N	PowerPlex® Fusion 5C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				
NGVZN4	PowerPlex® 21 (STRmix)					
	10,12,13	17,19,23		15,16,19	11,12,13	12,17,18,20
4	8,9,10,13	10,12,13,15		17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2		X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18					
NKVCJ4	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	2	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11				

TABLE 1

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

Item 4 - STR Results

NXHJG6	GlobalFiler™						
		10,12,13	17,19,23	10,14	15,16,19	11,12,13	N/A
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
		19,20,21	N/A	N/A	17,18,30.2	9,9.3,10	8,11
	16,18	11	N/A	N/A	2		
P4KAZM	PowerPlex® Fusion						
		10,12,13	17,19,23	10,14	15,16,19	11,12,13	
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
		19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11					
P9CEUQ	GlobalFiler™ (STRmix)						
		10,12,13	17,19,23	10,14	15,16,19	11,12,13	
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2		
PBHLCJ	PowerPlex® Fusion 6C (STRmix)						
		10,12,13	17,19,23	10,14	15,16,19	11,12,13	
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
		19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19			
PFVKTJ	PowerPlex® Fusion 6C (STRmix)						
		10,12,13	17,19,23	10,14	15,16,19	11,12,13	
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
		19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19			
PFY86Q	PowerPlex® Fusion 6C						
		[10],12,13	17,19,23	10,14	[15],16,19	11,12,13	not tested
	4	8,9,10,13	10,12,13,15	14,[16,17]	17.3,19.3,[22],24	[8,11],12	10,11,12,13
		[12],13,[14]	12,13,[15.2],16	[28,29],32.2	[11],16	X,[Y]	9,10,11,13
		19,20,[21]	9,10,16	5,[7,17]	17,18,30.2	9,9.3,10	8,[11]
	16,[18]	11	20	19	not tested		
PLJ8L3	PowerPlex® Fusion 6C (STRmix v 2.5.11)						
		10,12,13	17,19,23	10,14	15,16,19	11,12,13	
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
		19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	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 4 - STR Results

PMU8HX	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
PNNVY8	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	[28],[29],32.2,32.2	11,16	X,X,[Y]	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				
PNPR94	Investigator® 24plex					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	NT
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	NT	NT	17,18,30.2	9,9.3,10	8,11
	16,18	11	NT	NT	NT	
PRRNUR	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
PWHZR9	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
PY7CTZ	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
Q2NYJZ	GlobalFiler™ (Euroformix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	



TABLE 1

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

Item 4 - STR Results

QCQCYT	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
QEJ6YH	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
QFDV4W	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	--
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	--	--	17,18,30.2	9,9.3,10	8,11
	16,18	11	--	--	2	
QVGMJ7	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15,16	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2,31.2	9,9.3,10	8,11
	16,18	11			2	
R23WBF	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
R8C33F	GlobalFiler™ (Genemapper ID-x)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
RE4JGY	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

Item 4 - STR Results

RLVJER	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
RVYV92	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	NA
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	NA	NA	17,18,30.2	9,9.3,10	8,11
	16,18	11	NA	NA	2	
RWW77P	GlobalFiler™ (STRMIX)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
T6GYT7	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
THQAMM	Investigator® 24plex QS (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11				
TM2PR6	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16,17	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
TZQMVN	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	

TABLE 1

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

Item 4 - STR Results

TZTCZL	Investigator® 24plex					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11				
U2YWVZ	PowerPlex® Fusion 6C (STRmix V2.5.11)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
UJY4FT	PowerPlex® Fusion 5C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,[16],[17]	17.3,19.3,22,24	[8],[11],12	10,11,12,13
	[12],13,[14]	12,13,15.2,16	[28],[29],32.2	[11],16	X,[Y]	9,10,11,13
	19,20,[21]	9,10,16	5,[7],[17]		9,9.3,10	8,[11]
	16,[18]	11				
UMXH3H	PowerPlex® Fusion					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17		9,9.3,10	8,11
	16,18	11				
URDTFL	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	[15],[16],19	11,[12],[13]	
4	8,9,10,13	10,12,13,15	14,[16],[17]	17.3,19.3,22,24	[8],[11],12	10,11,12,[13]
	[12],13,[14]	12,13,[15.2],16	[28],[29],32.2	[11],16	X,[Y]	9,10,11,13
	19,[20],[21]	9,10,[16]	5,[7],[17]	17,18,30.2	9,9.3,[10]	8,[11]
	16,[18]	11	20	19		
UT7LFB	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	[15],16,19	11,12,13	
4	[8],9,10,13	10,12,13,15	14,[16],[17]	17.3,[19.3],22,24	[8],[11],12	10,11,12,13
	[12],13,[14]	12,13,[15.2],16	[28],[29],32.2	[11],16	X,[Y]	9,[10],[11],13
	19,[20],[21]			17,18,[30.2]	9,9.3,10	8,[11]
	16,[18]	11			2	
UTK9PD	GlobalFiler™					
	[10],12,[13]	[17],19,23	10,14	[15],16,19	11,12,13	
4	8,9,10,13	[10],12,13,15	14,[16],[17]	17.3,[19.3],22,24	[8],[11],12	10,11,12,[13]
	[12],13,[14]	[12],13,[15.2],16	[28],[29],32.2	[11],16	X,[Y]	9,[10],11,13
	19,20,[21]			17,18,[30.2]	9,9.3,10	8,[11]
	16,[18]	11			2	

TABLE 1

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

Item 4 - STR Results

UZ4HTF	Identifiler® Plus					
		17,19,23		15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15			8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2		X,Y	9,10,11,13
	19,20,21				9,9.3,10	8,11
	16,18					
V8JEGM	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
VGAZML	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
VGPERA	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
VR8ZYP	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
VW3PHH	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
VYQ48R	PowerPlex® 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	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 4 - STR Results

VZKRM3	PowerPlex® Fusion					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		[12],13,13,[14]	12,13,15.2,16	28,29,32.2	11,16	X,X,[Y] 9,10,11,13
		19,20,21	9,10,16	5,7,17		9,9.3,10 8,11
	16,18	11				
WBHAFG	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
	16,18	11			2	
WBYBEC	Investigator® 24plex					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21			17,18,30.2	9,9.3,10 8,11
	16,18	11				
WD7N4Q	PowerPlex® Fusion 6C (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10 8,11
	16,18	11	20	19		
WMAX9V	PowerPlex® 21 (STRmix v2.8)					
		9,10,11,11.2,12,13	16,17,18,19,22,23		14,15,16,17,18,19,20	10,11,12,13 11,12,16,17,18,19,20,21
	4	7,8,9,10,12,13	9,10,11,12,13,14,15		16.3,17.3,18.3,19.3,21,22,23,24	7,8,10,11,12 9,10,11,12,13
		11,12,13,14	11,12,13,14.2,15,15.2,16	27,28,29,31.2,32.2		X,Y 8,9,10,11,12,13
		18,19,20,21	8,9,10,16	5,7,16,17		8,9,9.3,10 7,8,11
	15,16,17,18					
WUT2FX	PowerPlex® Fusion 6C (STRmix v2.5)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12 10,11,12,13
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y 9,10,11,13
		19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10 8,11
	16,18	11	20	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 4 - STR Results

WWFLL2	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,15,16,17	17,3,19,3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16,17	X,Y	9,10,11,13
	19,20,21			17,17,2,18,30.2	9,9,3,10	8,11
	16,18	10,11			2	
WWYM7H	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17,3,19,3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9,3,10	8,11
	16,18	11	20	19		
WZYX2H	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	Not Tested
4	8,9,10,13	10,12,13,15	14,16,17	17,3,19,3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9,3,10	8,11
	16,18	11	20	19	Not Tested	
X3GC6J	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17,3,19,3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9,3,10	8,11
	16,18	11			2	
X4DV8K	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17,3,19,3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9,3,10	8,11
	16,18	11			2	
XDVG99	ESI17-Fast					
	10,12,13	17,19,23	10,14	15,16,19		
4		10,12,13,15	14,16,17	17,3,19,3,22,24		10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16	X,Y	
	19,20,21			17,18,30.2	9,9,3,10	
	16,18					
XKHZUW	PowerPlex® Fusion 6C (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17,3,19,3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15,2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9,3,10	8,11
	16,18	11	20	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 4 - STR Results

XQ36KC	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
	16,18	11			2	
XWBQ99	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
	16,18	11			2	
Y4RERG	GlobalFiler™ (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
	16,18	11			2	
Y62NGT	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21	N/A	N/A	17,18,30.2	9,9.3,10
	16,18	11	N/A	N/A	2	
Y6NREA	GlobalFiler™ (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
	16,18	11			2	
YCMJKH	GlobalFiler™ (STRmix)					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
	16,18	11			2	
YEMWXA	Identifiler® Plus					
			17,19,23		15,16,19	11,12,13
	4	8,9,10,13	10,12,13,15			8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2		X,Y
		19,20,21				9,9.3,10
	16,18				8,11	

TABLE 1

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

## Item 4 - STR Results

YQG9EU	PowerPlex® Fusion 6C					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
YRF9FF	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
YVXBLZ	GlobalFiler™ (STRmix)					
	10,12,13	17,18,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16,17	X,Y	9,10,11,13
	19,20,21			17,18,29.2,30.2	9,9.3,10	8,11
	16,17,18	11			2	
Z2Y6W7	GlobalFiler™					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
Z6A7WQ	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
Z6G6E8	GlobalFiler™					
	10,12,13	17,19,23	10,14	[15],[16],19	11,12,13	
4	8,[9],10,13	[10],[12],13,15	14,[16],[17]	17.3,[19.3],24	[8],[11],12	10,11,[12],[13]
	[12],13,[14]	12,13,15.2,16	[28],[29],32.2	11,16	X,[Y]	[9],10,11,13
	19,20,[21]			17,18,30.2	9,9.3,10	8,[11]
	16,[18]	11			2	
Z7CUCA	Identifiler® Plus					
		17,19,23		15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15			8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2		X,Y	9,10,11,13
	19,20,21				9,9.3,10	8,11
	16,18					



TABLE 1

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

Item 4 - STR Results

Z8NKLD	Investigator® 24plex (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11				
ZQZCLU	PowerPlex® Fusion 6C (STRmix V2.5.11)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21	9,10,16	5,7,17	17,18,30.2	9,9.3,10	8,11
	16,18	11	20	19		
ZUYNJF	PowerPlex® Fusion 6C					
	10,12,[13]	17,19,23	10,14	[15],16,19	11,12,13	
4	8,[9],10,13	10,12,13,15	14,[16],[17]	17.3,19.3,22,24	[8],[11],12	10,11,[12],13
	[12],13,[14]	12,13,[15.2],16	[28],[29],32.2	[11],16	X,[Y]	9,10,11,13
	19,20,[21]	9,10,16	5,[7],[17]	17,18,30.2	9,9.3,10	8,[11]
	16,[18]	11	20	19		
ZXHPH9	GlobalFiler™ (STRmix)					
	10,12,13	17,19,23	10,14	15,16,19	11,12,13	
4	8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12	10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	9,10,11,13
	19,20,21			17,18,30.2	9,9.3,10	8,11
	16,18	11			2	
ZYANW7	ESI-17					
	10,12,13	17,19,23	10,14	15,16,19		
4		10,12,13,15	14,16,17	17.3,19.3,22,24		10,11,12,13
	12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y	
	19,20,21			17,18,30.2	9,9.3,10	
	16,18					

TABLE 1

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

Item 4e - STR Results

6DEQ7G	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4e		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
		16,18	11			8,11
						2
AULEKC	GlobalFiler™					
		10,12,13	17,19,23	10,14	15,16,19	11,12,13
4e		8,9,10,13	10,12,13,15	14,16,17	17.3,19.3,22,24	8,11,12
		12,13,14	12,13,15.2,16	28,29,32.2	11,16	X,Y
		19,20,21			17,18,30.2	9,9.3,10
		16,18	11			8,11
						2

TABLE 1

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

Item 4sp - STR Results

6DEQ7G GlobalFiler™

4sp



AULEKC GlobalFiler™

4sp



# YSTR Amplification Kit(s) & Results

TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

## Item 1 - YSTR Results

243ZFA	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
2B2PVT	Yfiler™								
		14	11,14	13	30	24	11	13	12
	1	15	12	12	19	15	16		
						23			12
2G7N4W	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	1	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
2V8ZYW	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
	1	15	12	12	19	15	16		22
		12	13	20	19		23	10	12
3AMFJ8	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	1	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
3DYM HQ	Yfiler™								
		14	11,14	13	30	24	11	13	12
	1	15	12	12	19	15	16		
						23			12
3XAFMD	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	1	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
43KQF8	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	1	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
468ER8	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	1	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
4C9LG9	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	1	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
4DEBB6	PowerPlex® Y 23								
	--	14	11,14	13	30	24	11	13	12
	1	15	12	12	19	--	15	16	--
	--	12	13	20	19	--	23	10	12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 1 - YSTR Results</b>									
4FMGVK	PowerPlex® Y 23								
1	14	11,14	13	30	24	11	13	12	
	15	12	12	19	15	16		22	
	12	13	20	19		23	10	12	
4VY2B4	PowerPlex® Y 23								
1	14	11,14	13	30	24	11	13	12	
	15	12	12	19	15	16		22	
	12	13	20	19		23	10	12	
6NW8Z9	Yfiler™								
1	14	11,14	13	30	24	11	13	12	
	15	12	12	19	15	16			
						23		12	
6PKL6K	Argus-Y28								
1	14	11,14	13	30	24	11	13	12	
	15	12	12	19	30	16	11	22	
	40	12	13	20	19	20	23	10	12
79EL83	Yfiler™ Plus								
1	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
7CYQLR	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
7EL3MH	PowerPlex® Y 23								
1	14	11,14	13	30	24	11	13	12	
	15	12	12	19	15	16		22	
	12	13	20	19		23	10	12	
7PK6JZ	Yfiler™								
1	14	11,14	13	30	24	11	13	12	
	15	12	12	19	15	16			
						23		12	
7QWKDZ	Yfiler™								
1	14	11,14	13	30	24	11	13	12	
	15	12	12	19	15	16			
						23		12	
7TL8PN	Yfiler™								
1	14	11,14	13	30	24	11	13	12	
	15	12	12	19	15	16			
						23		12	
7Z9UNZ	Yfiler™ Plus								
1	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
84YLA3	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12

TABLE 2

WebCode		Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4	
<b>Item 1 - YSTR Results</b>										
86H87Y	Yfiler™ Plus									
	35	14	11,14	13	30	24	11	13	12	
1	15	12	12	19	30	15	16	11	22	
	40	12		20	19	20	23		12	
88YW63	Yfiler™ Plus									
	35	14	11,14	13	30	24	11	13	12	
1	15	12	12	19	30	15	16	11	22	
	40	12		20	19	20	23		12	
89GNG8	PowerPlex® Y									
		14	11,14	13	30	24	11	13	12	
1	15	12	12	19		15	16		22	
		12	13	20	19		23	10	12	
8CFZC8	PowerPlex® Y 23									
		14	11,14	13	30	24	11	13	12	
1	15	12	12	19		15	16		22	
		12	13	20	19		23	10	12	
8CRY8G	PowerPlex® Y 23									
		14	11,14	13	30	24	11	13	12	
1	15	12	12	19		15	16		22	
		12	13	20	19		23	10	12	
8G7AM7	Yfiler™ Plus									
	35	14	11,14	13	30	24	11	13	12	
1	15	12	12	19	30	15	16	11	22	
	40	12		20	19	20	23		12	
8TZQC8	PowerPlex® Y 23									
		14	11,14	13	30	24	11	13	12	
1	15	12	12	19		15	16		22	
		12	13	20	19		23	10	12	
8V87KX	Yfiler™ Plus									
	35	14	11,14	13	30	24	11	13	12	
1	15	12	12	19	30	15	16	11	22	
	40	12		20	19	20	23		12	
9N6J74	Yfiler™ Plus									
	35,35	14	11,14	13	30	24	11	13	12	
1	15	12	12	19	30	15	16	11	22	
	40	12		20	19	20	23		12	
9R3ZJX	Yfiler™ Plus									
	35,35	14	11,14	13	30	24	11	13	12	
1	15	12	12	19	30	15	16	11	22	
	40	12		20	19	20	23		12	
9WFKR4	Yfiler™ Plus									
	35	14	11,14	13	30	24	11	13	12	
1	15	12	12	19	30	15	16	11	22	
	40	12		20	19	20	23		12	
A4B66J	Yfiler™									
		14	11,14	13	30	24	11	13	12	
1	15	12	12	19		15	16		22	
							23		12	

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 1 - YSTR Results</b>									
AG2VPM	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
AWQ4P7	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
BL9Q3V	Yfiler™								
1		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		
							23		12
BQKPHV	Yfiler™ Plus								
1	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
CEM97Y	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
CK947H	Yfiler™								
1		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		
							23		12
D2EP96	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
D37J8U	Yfiler™ Plus								
1	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
D9E6VR	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
DAAMXT	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
DE3RNC	PowerPlex® Y 23								
1		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
DEMBUJ	PowerPlex® Y 23								
1		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
		12	13	20	19		23	10	12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 1 - YSTR Results</b>									
DQUEWR	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
EJ9HT3	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
EJQRHX	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
EX8PMX	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
EZYQNF	Yfiler™								
1		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
							23		12
FPWPPG	PowerPlex® Y 23								
1		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
FR3BE2	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
GGEVQP	Yfiler™ Plus								
1	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
GKRL7T	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
GZRDXP	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
H3UGMQ	Yfiler™ Plus								
1	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
HDT9UW	Yfiler™								
1		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
							23		12



TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 1 - YSTR Results</b>									
HHLDMZ	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
HMJWMD	PowerPlex® Y 23								
1		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
HZ74LY	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
J7QLDF	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
JL3ZVD	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
JN8NCN	Yfiler™ Plus								
1	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
JTKDRR	Yfiler™ Plus								
1	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
JV6FHX	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
JY6NPT	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
K69U3B	Yfiler™								
1		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
							23		12
KPVQAN	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
KR6QEV	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12

TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

## Item 1 - YSTR Results

KTZAGW	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
L4ELAK	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
LHCM3L	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
LXNEPQ	Yfiler™								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		23
							23		12
LY3HK4	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
MQHYGV	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
N3BKK6	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
N7T3DA	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
N9GEEZ	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
NGDC4N	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
NKVCJ4	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
P4KAZM	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12

TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 1 - YSTR Results

P9CEUQ	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
PFVKTJ	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
PNNVY8	PowerPlex® Y 23								
		14	[11],14	13	30	24	11	13	12
	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
PRRNUR	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
Q2NYJZ	Argus-Y28								
		14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12	13	20	19	20	23	10	12
QEJ6YH	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
RWW77P	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
T6LGQ4	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
TYDTD3	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
TZQMVN	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
U2YWLZ	Yfiler™								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		
						23		12	
UMXH3H	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 1 - YSTR Results</b>									
UT7LFB	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
UTK9PD	Yfiler™ Plus								
1	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
V8JEGM	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
VGAZML	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
VYQ48R	PowerPlex® Y 23								
1		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
VZKRM3	PowerPlex® Y 23								
1		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
WBHAFG	Yfiler™								
1		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		
							23		12
WD7N4Q	PowerPlex® Y 23								
1		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
WMAX9V	Yfiler™ Plus								
1	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
WUT2FX	Yfiler™								
1		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		
							23		12
X3GC6J	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
X4DV8K	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 1 - YSTR Results</b>									
XKHZUW	Yfiler™								
1	14	11,14	13	30	24	11	13	12	
	15	12	12	19	15	16			
						23			12
XQ36KC	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
XWBQ99	Yfiler™								
1	14	11,14	13	30	24	11	13	12	
	15	12	12	19	15	16			
						23			12
YCMJKH	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
YQG9EU	Yfiler™								
1	14	11,14	13	30	24	11	13	12	
	15	12	12	19	15	16			
						23			12
YRF9FF	Yfiler™ Plus								
1	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
Z2Y6W7	Yfiler™ Plus								
1	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
Z8NKLD	Yfiler™								
1	14	11,14	13	30	24	11	13	12	
	15	12	12	19	15	16			
						23			12
ZCHGB6	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
ZQZCLU	Yfiler™								
1	14	11,14	13	30	24	11	13	12	
	15	12	12	19	15	16			
						23			12
ZXHPH9	Yfiler™ Plus								
1	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3 - YSTR Results

468ER8	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
4VY2B4	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
	3	15	12	12	19	15	16		22
		12	13	20	19		23	10	12
JTKDRR	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
KPVQAN	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
NKVCJ4	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
TYDTD3	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
WBYBEC	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
XQ36KC	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
ZXHPH9	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 3e - YSTR Results</b>									
243ZFA	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
2G7N4W	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
2V8ZYW	PowerPlex® Y 23								
		NT	NT	NT	NT	NT	NT	NT	NT
3e	NT	NT	NT	NT		NT	NT		NT
		NT	NT	NT	NT		NT	NT	NT
3AMFJ8	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
3XAFMD	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
43KQF8	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
4C9LG9	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
4DEBB6	PowerPlex® Y 23								
	--	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	--	15	16	--	22
	--	12	13	20	19	--	23	10	12
4FMGVK	PowerPlex® Y 23								
3e									
6NW8Z9	Yfiler™								
		14	11,14	13	30	24	11	13	12
3e	15	12	12	19		15	16		
							23		12
6PKL6K	Argus-Y28								
3e									
79EL83	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	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
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 3e - YSTR Results</b>									
7CYQLR	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
7EL3MH	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
3e	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
7PK6JZ	Yfiler™								
		14	11,14	13	30	24	11	13	12
3e	15	12	12	19		15	16		
							23		12
7QWKDZ	Yfiler™								
		14	11,14	13	30	24	11	13	12
3e	15	12	12	19		15	16		
							23		12
7TL8PN	Yfiler™								
3e									
7Z9UNZ	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
84YLA3	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
86H87Y	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
88YW63	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
89GNG8	PowerPlex® Y								
		14	11,14	13	30	24	11	13	12
3e	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
8CFZC8	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
3e	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
8CRY8G	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
3e	15	12	12	19		15	16		22
		12	13	20	19		23	10	12



TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3e - YSTR Results

8G7AM7	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
8TZQC8	Yfiler™								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		
3e						23			12
9N6J74	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
9R3ZJX	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
9WFKR4	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
AG2VPM	Yfiler™ Plus								
	3e								
AWQ4P7	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
BL9Q3V	Yfiler™								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		
3e						23			12
BQKPHV	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
CEM97Y	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
CK947H	Yfiler™								
	3e								
D2EP96	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3e - YSTR Results

D9E6VR	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
DAAMXT	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
DE3RNC	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
3e		12	13	20	19		23	10	12
DEMBUJ	PowerPlex® Y 23								
		NT	NT	NT	NT	NT	NT	NT	NT
	NT	NT	NT	NT	NT	NT	NT	NT	NT
3e		NT	NT	NT	NT		NT	NT	NT
DQUEWR	Yfiler™ Plus								
3e									
EJ9HT3	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
EJQRHX	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
EX8PMX	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
EZYQNF	Yfiler™								
3e									
FPWPPG	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
3e		12	13	20	19		23	10	12
FR3BE2	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
GZRDXP	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3e - YSTR Results

HDT9UW	Yfiler™								
		14	11,14	13	30	24	11	13	12
	3e	15	12	12	19	15	16	23	12
HHLDMZ	Yfiler™ Plus								
		14	11,14	13	30	24	11	13	12
	3e	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
HMJWMD	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
	3e	15	12	12	19	15	16		22
	12	13	20	19		23	10	12	
HZ74LY	Yfiler™ Plus								
		14	11,14	13	30	24	11	13	12
	3e	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
JL3ZVD	Yfiler™ Plus								
		14	11,14	13	30	24	11	13	12
	3e	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
JV6FHX	Yfiler™ Plus								
		14	11,14	13	30	24	11	13	12
	3e	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
JY6NPT	Yfiler™ Plus								
		14	11,14	13	30	24	11	13	12
	3e	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
K69U3B	Yfiler™								
	3e								
KR6QEV	Yfiler™ Plus								
		14	11,14	13	30	24	11	13	12
	3e	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
KTZAGW	Yfiler™ Plus								
		14	11,14	13	30	24	11	13	12
	3e	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
LHCM3L	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
	3e	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
LXNEPQ	Yfiler™								
		14	11,14	13	30	24	11	13	12
	3e	15	12	12	19	15	16	23	12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 3e - YSTR Results</b>									
LY3HK4	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
3e	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
MQHYGV	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
N3BKK6	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
N7T3DA	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
N9GEEZ	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
3e	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
NGDC4N	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
P4KAZM	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
P9CEUQ	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
PFVKTJ	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
3e	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
PNNVY8	PowerPlex® Y 23								
		14	11,[14]	13	30	24	11	13	12
3e	15	12	12	19		15	16		22
		12	13	20	19		23	10	ND
PRRNUR	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
Q2NYJZ	Argus-Y28								
3e									

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3e - YSTR Results

RWW77P	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
TZQMVN	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
U2YW LZ	Yfiler™								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
UMXH3H	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
UT7LFB	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
UTK9PD	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
V8JEGM	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
VGAZML	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3e	40	12		20	19	20	23		12
VYQ48R	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
3e		12	13	20	19		23	10	12
VZKRM3	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
	ND	12	12	19		15	16		22
3e		12	13	20	19		23	10	12
WBHAFG	Yfiler™								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		
3e						23			12
WD7N4Q	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
3e		12	13	20	19		23	10	12

TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3e - YSTR Results

WMAX9V	Yfiler™ Plus								
3e	[REDACTED]								
WUT2FX	Yfiler™								
3e	[REDACTED]								
X3GC6J	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
X4DV8K	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
XKHZUW	Yfiler™								
3e	[REDACTED]								
XWBQ99	Yfiler™								
		14	11,14	13	30	24	11	13	12
3e	15	12	12	19		15	16		
							23		12
YCMJKH	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
YQG9EU	Yfiler™								
3e	[REDACTED]								
YRF9FF	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
Z8NKLD	Yfiler™								
		14	11,14	13	30	24	11	13	12
3e	15	12	12	19		15	16		
							23		12
ZCHGB6	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3e	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
ZQZCLU	Yfiler™								
3e	[REDACTED]								

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 3sp - YSTR Results</b>									
243ZFA	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
2G7N4W	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
2V8ZYW	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
3AMFJ8	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
3XAFMD	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
43KQF8	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
4C9LG9	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
4DEBB6	PowerPlex® Y 23								
	--	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	--	15	16	--	22
	--	12	13	20	19	--	23	10	12
4FMGVK	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
6NW8Z9	Yfiler™								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		
							23		12
6PKL6K	Argus-Y28								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12	13	20	19	20	23	10	12
79EL83	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12

TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3sp - YSTR Results

7CYQLR	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3sp	40	12		20	19	20	23		12
7EL3MH	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
3sp		12	13	20	19		23	10	12
7PK6JZ	Yfiler™								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		
3sp							23		12
7QWKDZ	Yfiler™								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		
3sp							23		12
7TL8PN	Yfiler™								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		
3sp							23		12
7Z9UNZ	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3sp	40	12		20	19	20	23		12
84YLA3	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3sp	40	12		20	19	20	23		12
86H87Y	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3sp	40	12		20	19	20	23		12
88YW63	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3sp	40	12		20	19	20	23		12
89GNG8	PowerPlex® Y								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
3sp		12	13	20	19		23	10	12
8CFZC8	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
3sp		12	13	20	19		23	10	12
8CRY8G	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
3sp		12	13	20	19		23	10	12



TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 3sp - YSTR Results</b>									
8G7AM7	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
8TZQC8	Yfiler™								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		
							23		12
8V87KX	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
9N6J74	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
9R3ZJX	Yfiler™ Plus								
3sp									
9WFKR4	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
AG2VPM	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
AWQ4P7	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
BL9Q3V	Yfiler™								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		
							23		12
BQKPHV	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
CEM97Y	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
CK947H	Yfiler™								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		
							23		12

TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3sp - YSTR Results

D2EP96	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3sp	40	12		20	19	20	23		12
D9E6VR	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3sp	40	12		20	19	20	23		12
DAAMXT	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3sp	40	12		20	19	20	23		12
DE3RNC	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
3sp		12	13	20	19		23	10	12
DEMBUJ	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
3sp		12	13	20	19		23	10	12
DQUEWR	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3sp	40	12		20	19	20	23		12
EJ9HT3	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3sp	40	12		20	19	20	23		12
EJQRHX	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3sp	40	12		20	19	20	23		12
EX8PMX	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3sp	40	12		20	19	20	23		12
EZYQNF	Yfiler™								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		
3sp							23		12
FPWPPG	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
	15	12	12	19		15	16		22
3sp		12	13	20	19		23	10	12
FR3BE2	Yfiler™ Plus								
	25	14	11,14	13	30	24	11	13	12
	15	12	12	19	30	15	16	11	22
3sp	40	12		20	19	20	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
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 3sp - YSTR Results</b>									
GKRL7T	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
GZRDXP	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
HDT9UW	Yfiler™								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		
							23		12
HHLDMZ	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
HMJWMD	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
HZ74LY	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
JL3ZVD	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
JV6FHX	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
JY6NPT	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
K69U3B	Yfiler™								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		
							23		12
KR6QEV	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
KTZAGW	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 3sp - YSTR Results</b>									
LHCM3L	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
LXNEPQ	Yfiler™								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		
							23		12
LY3HK4	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
MQHYGV	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
N3BKK6	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
N7T3DA	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
N9GEEZ	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
NGDC4N	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
P4KAZM	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
P9CEUQ	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
PFVKTJ	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
PNNVY8	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		22
		12	13	20	19		23	10	12

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 3sp - YSTR Results</b>									
PRRNUR	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
Q2NYJZ	Argus-Y28								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12	13	20	19	20	23	10	12
RWW77P	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
TZQMVN	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
U2YWZL	Yfiler™								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		
							23		12
UMXH3H	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
UT7LFB	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
UTK9PD	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
V8JEGM	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
VGAZML	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
VYQ48R	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
VZKRM3	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		22
		12	13	20	19		23	10	12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 3sp - YSTR Results</b>									
WBHAFG	Yfiler™								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		12
							23		
WD7N4Q	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
WMAX9V	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
WUT2FX	Yfiler™								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		12
							23		
X3GC6J	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
X4DV8K	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
XKHZUW	Yfiler™								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		12
							23		
XWBQ99	Yfiler™								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		12
							23		
YCMJKH	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
YQG9EU	Yfiler™								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		12
							23		
YRF9FF	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
Z8NKLD	Yfiler™								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		12
							23		

TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3sp - YSTR Results

ZCHGB6	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
3sp	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
ZQZCLU	Yfiler™								
		14	11,14	13	30	24	11	13	12
3sp	15	12	12	19		15	16		
							23		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 4 - YSTR Results</b>									
243ZFA	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
2G7N4W	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
2V8ZYW	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
3AMFJ8	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
3XAFMD	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
43KQF8	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
468ER8	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
4C9LG9	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
4DEBB6	PowerPlex® Y 23								
	--	14	11,14	13	30	24	11	13	12
4	15	12	12	19	--	15	16	--	22
	--	12	13	20	19	--	23	10	12
4VY2B4	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
6NW8Z9	Yfiler™								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
							23		12
6PKL6K	Argus-Y28								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12	13	20	19	20	23	10	12



TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 4 - YSTR Results</b>									
79EL83	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
7CYQLR	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
7EL3MH	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
7PK6JZ	Yfiler™								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
							23		12
7QWKDZ	Yfiler™								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
							23		12
7TL8PN	Yfiler™								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
							23		12
7Z9UNZ	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
84YLA3	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
86H87Y	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
88YW63	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
89GNG8	PowerPlex® Y								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
8CFZC8	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
		12	13	20	19		23	10	12

TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4 - YSTR Results

8CRY8G	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
8G7AM7	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
8TZQC8	Yfiler™								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		
							23		12
9N6J74	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
9WFKR4	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
AG2VPM	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
AWQ4P7	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
BL9Q3V	Yfiler™								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		
							23		12
BQKPHV	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
CEM97Y	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
CK947H	Yfiler™								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		
							23		12
D2EP96	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12

TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

## Item 4 - YSTR Results

D9E6VR	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
DAAMXT	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
DE3RNC	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
DEMBUJ	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
DQUEWR	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
EJ9HT3	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
EJQRHX	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
EX8PMX	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
EZYQNF	Yfiler™								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		
							23		12
FPWPPG	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
FR3BE2	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
GKRL7T	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12

TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

## Item 4 - YSTR Results

GZRDXP	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	4	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
HDT9UW	Yfiler™								
		14	11,14	13	30	24	11	13	12
	4	15	12	12	19	15	16		
						23		12	
HHLDMZ	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	4	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
HMJWMD	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
	4	15	12	12	19	15	16		22
		12	13	20	19	23	10	12	
HZ74LY	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	4	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
JL3ZVD	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	4	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
JTKDRR	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
	4	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
JV6FHX	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	4	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
JY6NPT	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	4	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
K69U3B	Yfiler™								
		14	11,14	13	30	24	11	13	12
	4	15	12	12	19	15	16		
						23		12	
KPVQAN	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	4	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
KR6QEV	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	4	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 4 - YSTR Results</b>									
KTZAGW	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
L4ELAK	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
LHCM3L	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
LXNEPQ	Yfiler™								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		
							23		12
LY3HK4	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
MQHYGV	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
N3BKK6	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
N7T3DA	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
N9GEEZ	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
NGDC4N	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
NKVCJ4	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
P4KAZM	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12

TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

## Item 4 - YSTR Results

P9CEUQ	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
PFVKTJ	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
PNNVY8	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
PRRNUR	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
Q2NYJZ	Argus-Y28								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12	13	20	19	20	23	10	12
RWW77P	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
TYDTD3	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
TZQMVN	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
U2YW LZ	Yfiler™								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		
							23		12
UMXH3H	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
UT7LFB	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
UTK9PD	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12

TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4 - YSTR Results

V8JEGM	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
VGAZML	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
VYQ48R	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
VZKRM3	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
WBHAFG	Yfiler™								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
							23		12
WBYBEC	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
WD7N4Q	PowerPlex® Y 23								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
		12	13	20	19		23	10	12
WMAX9V	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
WUT2FX	Yfiler™								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
							23		12
X3GC6J	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
X4DV8K	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
4	15	12	12	19	30	15	16	11	22
	40	12		20	19	20	23		12
XKHZUW	Yfiler™								
		14	11,14	13	30	24	11	13	12
4	15	12	12	19		15	16		22
							23		12

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4 - YSTR Results

XQ36KC	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	4	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
XWBQ99	Yfiler™								
		14	11,14	13	30	24	11	13	12
	4	15	12	12	19	15	16		
						23		12	
YCMJKH	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	4	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
YQG9EU	Yfiler™								
		14	11,14	13	30	24	11	13	12
	4	15	12	12	19	15	16		
						23		12	
YRF9FF	Yfiler™ Plus								
	35,35	14	11,14	13	30	24	11	13	12
	4	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
Z8NKLD	Yfiler™								
		14	11,14	13	30	24	11	13	12
	4	15	12	12	19	15	16		
						23		12	
ZCHGB6	Yfiler™ Plus								
	35	14	11,14	13	30	24	11	13	12
	4	15	12	12	19	30	15	16	11
	40	12		20	19	20	23		12
ZQZCLU	Yfiler™								
		14	11,14	13	30	24	11	13	12
	4	15	12	12	19	15	16		
						23		12	



# Additional DNA Results

TABLE 3

Additional DNA results found to be concordant at a pre-existing locus are retained solely within the applicable tables. Non-concordant results and results for loci not found elsewhere will remain in this table.

Locus	WebCode	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4	Item 4e	Item 4sp
-------	---------	--------	--------	--------	---------	----------	--------	---------	----------

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
22FFB6	Yes	Yes	Yes	Yes	468ER8	Yes	Yes	Yes	Yes
243ZFA	Yes	Yes	Yes	Yes	46MT4N	Yes	Yes	Yes	Yes
26BG48	Yes	Yes	Yes	Yes	47HAFK	Yes	Yes	Yes	Yes
2B2PVT	No Interpretations Reported, DNA Analyzed for Database purposes only.				4C9LG9	Yes	Yes	Yes	Yes
2EMAZW	Yes	Yes	Yes	Yes	4DEBB6	Yes	Yes	Yes	No
2G7N4W	Yes	Yes	Yes	Yes	4FMGVK	Yes	Yes	Yes	Yes
2KMVL6	Yes	Yes	Yes	Yes	4HEFAJ	Yes	Yes	Yes	Yes
2V8ZYW	Yes	Yes	Yes	Yes	4JK3MN	Yes	Yes	Yes	Yes
2V9RVJ	Yes	Yes	Yes	Yes	4N4XPF	Yes	Yes	Yes	Yes
2XDHZD	Yes	Yes	Yes	Yes	4Q42G3	Yes	Yes	Yes	Yes
2Z6J2U	No Interpretations Reported, DNA Analyzed for Database purposes only.				4VY2B4	Yes	Yes	Yes	Yes
36VDEL	Yes	Yes	Yes	Yes	4ZPCK3	Yes	Yes	Yes	Yes
38Y4HF	Yes	Yes	Yes	Yes	666YZT	Yes	Yes	Yes	Yes
3AMFJ8	Yes	Yes	Yes	Yes	6BAZ2M	Yes	Yes	Yes	Yes
3DYMHQ	No Interp	No Interp	No Interp	No Interp	6DEQ7G	Yes	Yes	Yes	Yes
3GMYJG	No Interp	No Interp	No Interp	No Interp	6G63LL	Yes	Yes	Yes	Yes
3JB9V4	Yes	Yes	Yes	Yes	6NW8Z9	Yes	Yes	Yes	Yes
3XAFMD	Yes	Yes	Yes	Yes	6PKL6K	Yes	Yes	Yes	Yes
3ZDB8G	No Interp	No Interp	No Interp	No Interp	6QF68L	Yes	Yes	Yes	Yes
43KQF8	Yes	Yes	Yes	Yes	73DKQA	Yes	Yes	Yes	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
79EL83	Yes	Yes	Yes	Yes	8M9QPY	Yes	Yes	Yes	Yes
7A8PHP	No Interpretations Reported, DNA Analyzed for Database purposes only.				8TZQC8	Yes	Yes	Yes	Yes
7CYQLR	Yes	Yes	Yes	Yes	8V87KX	Yes	Yes	Yes	Yes
7EL3MH	Yes	Yes	Yes	Yes	92RQ2J	Yes	Yes	Yes	Yes
7HN4P2	Yes	Yes	Yes	Yes	99AWZB	No Interp	No Interp	No Interp	No Interp
7LPA3L	Yes	Yes	Yes	Yes	9MMFDJ	Yes	Yes	Yes	Yes
7PK6JZ	Yes	Yes	Yes	Yes	9N6J74	Yes	Yes	Yes	Yes
7QWKDZ	Yes	Yes	Yes	Yes	9R3ZJX	Yes	Yes	Yes	Yes
7TL8PN	Yes	Yes	Yes	Yes	9WFKR4	Yes	Yes	Yes	Yes
7Z4DQ2	Yes	Yes	Yes	Yes	A4B66J	No Interp	No Interp	No Interp	No Interp
7Z9UNZ	Yes	Yes	Yes	Yes	A4R76Z	Yes	Yes	Yes	Yes
82XHHF	Yes	Yes	Yes	Yes	A7YG7A	No Interp	No Interp	No Interp	No Interp
84YLA3	Yes	Yes	Yes	Yes	A944JE	Yes	Yes	Yes	Yes
86DX4Z	Yes	Yes	Yes	Yes	A9R8CP	Yes	Yes	Yes	Yes
86H87Y	Yes	Yes	No Interp	No Interp	AC8WFY	Yes	Yes	Yes	Yes
88YW63	Yes	Yes	Yes	Yes	AG2VPM	Yes	Yes	Yes	Yes
89GNG8	Yes	Yes	Yes	Yes	AULEKC	Yes	Yes	Yes	Yes
8CFZC8	Yes	Yes	Yes	Yes	AWQ4P7	Yes	Yes	Yes	Yes
8CRY8G	Yes	Yes	Yes	Yes	BCRBXF	Yes	Yes	Yes	Yes
8G7AM7	Yes	Yes	Yes	Yes	BL9Q3V	Yes	Yes	Yes	Yes
8GQDTK	Yes	Yes	Yes	Yes	BNZJJ9	No Interp	No Interp	No Interp	No Interp

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
BQKPHV	Yes	Yes	Yes	Yes	EKMAJY	Yes	Yes	Yes	Yes
BRYUE9	Yes	Yes	Yes	Yes	EMAN99	Yes	Yes	Yes	Yes
BUC2WE	Yes	Yes	Yes	Yes	EN72V2	No Interp	No Interp	No Interp	No Interp
C62UJW	Yes	Yes	Yes	Yes	EPCW7R	Yes	Yes	Yes	Yes
CE7U2B	Yes	Yes	Yes	Yes	ERHAUK	Yes	Yes	Yes	Yes
CEM97Y	Yes	Yes	Yes	Yes	EX8PMX	Yes	Yes	Yes	Yes
CK947H	Yes	Yes	Yes	Yes	EZYQNF	Yes	Yes	Yes	Yes
CLLKHV	Yes	Yes	Yes	Yes	F3HZD8	Yes	Yes	Yes	Yes
CPYHNX	Yes	Yes	Yes	Yes	FDYTKU	Yes	Yes	Yes	Yes
D2EP96	Yes	Yes	Yes	Yes	FPBCZ4	No Interp	No Interp	No Interp	No Interp
D37J8U	Yes	Yes	Yes	Yes	FPWPPG	Yes	Yes	Yes	Yes
D9E6VR	Yes	Yes	No Interp	No Interp	FR3BE2	Yes	Yes	Yes	Yes
DAAMXT	Yes	Yes	Yes	Yes	G3AMP9	Yes	Yes	Yes	Yes
DE3RNC	Yes	Yes	Yes	Yes	GFZ8PX	No Interp	No Interp	No Interp	No Interp
DEMBUJ	Yes	Yes	Yes	Yes	GGEVQP	Yes	Yes	Yes	Yes
DQUEWR	Yes	Yes	Yes	Yes	GGW79	Yes	Yes	Yes	Yes
DVQZNV	Yes	Yes	Yes	Yes	GKRL7T	Yes	Yes	Yes	Yes
EANCUD	Yes	Yes	Yes	Yes	GUH7CQ	Yes	Yes	Yes	Yes
EBEFMK	Yes	Yes	Yes	Yes	GZRDXP	Yes	Yes	Yes	Yes
EJ9HT3	Yes	Yes	Yes	Yes	H22MN2	No Interp	No Interp	No Interp	No Interp
EJQRHX	Yes	Yes	Yes	Yes	H3UGMQ	Yes	Yes	Yes	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
H8Q64X	Yes	Yes	Yes	Yes	K69U3B	Yes	Yes	Yes	Yes
HDT9UW	Yes	Yes	Yes	Yes	KBY6C9	Yes	Yes	Yes	Yes
HHLDMZ	Yes	Yes	Yes	Yes	KFQJUN	Yes	Yes	Yes	Yes
HMJWMD	Yes	Yes	Yes	Yes	KG2KGM	Yes	Yes	Yes	Yes
HNQCW6	Yes	Yes	Yes	Yes	KNN43B	No Interpretations Reported, DNA Analyzed for Database purposes only.			
HXXURG	Yes	Yes	Yes	Yes	KPR2U6	Yes	Yes	Yes	Yes
HZ74LY	Yes	Yes	Yes	Yes	KPVQAN	Yes	Yes	Yes	Yes
J3NN69	Yes	Yes	Yes	Yes	KR6QEV	Yes	Yes	Yes	Yes
J4EU78	Yes	Yes	Yes	Yes	KTZAGW	Yes	Yes	Yes	Yes
J7QLDF	No Interpretations Reported, DNA Analyzed for Database purposes only.				L26GUB	Yes	Yes	Yes	Yes
J8L6JN	Yes	Yes	Yes	Yes	L4AB8M	Yes	Yes	Yes	Yes
J8XYYN	Yes	Yes	Yes	Yes	L4ELAK	Yes	Yes	Yes	Yes
JA8TVN	Yes	Yes	Yes	Yes	LA3BRA	No Interpretations Reported, DNA Analyzed for Database purposes only.			
JD86QN	Yes	Yes	Yes	Yes	LFMAK4	Yes	Yes	Yes	Yes
JL3ZVD	Yes	Yes	Yes	Yes	LHCM3L	Yes	Yes	Yes	Yes
JN8NCN	Yes	Yes	Yes	Yes	LQPQV7	Yes	Yes	Yes	Yes
JP2EH4	Yes	Yes	Yes	Yes	LV48P4	Yes	Yes	Yes	Yes
JTKDRR	Yes	Yes	Yes	Yes	LVE7JD	Yes	Yes	Yes	Yes
JURVQM	Yes	Yes	Yes	Yes	LWLUF4	Yes	Yes	Yes	Yes
JV6FHX	Yes	Yes	Yes	Yes	LXNEPQ	Yes	Yes	Yes	Yes
JY6NPT	Yes	Yes	Yes	Yes	LY3HK4	Yes	Yes	Yes	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
M482W2	Yes	Yes	Yes	Yes	PNPR94	Yes	Yes	Yes	Yes
M4U6UH	Yes	Yes	Yes	Yes	PRRNUR	Yes	Yes	Yes	Yes
MDBXYJ	Yes	Yes	Yes	Yes	PWHZR9	No Interp	No Interp	No Interp	No Interp
MJJEY	Yes	Yes	Yes	Yes	PY7CTZ	Yes	Yes	Yes	Yes
MQHYGV	Yes	Yes	Yes	Yes	Q2NYJZ	Yes	Yes	Yes	Yes
MW8GWR	Yes	No Interp	Yes	No Interp	QCQCYT	No Interp	No Interp	No Interp	No Interp
N3BKK6	Yes	Yes	Yes	Yes	QEJ6YH	Yes	Yes	Yes	Yes
N7T3DA	Yes	Yes	Yes	Yes	QFDV4W	Yes	Yes	Yes	Yes
N9GEEZ	Yes	Yes	Yes	Yes	QVGMJ7	Yes	Yes	Yes	Yes
NGDC4N	Yes	Yes	Yes	Yes	R23WBF	Yes	Yes	Yes	Yes
NGVZN4	Yes	Yes	Yes	Yes	R8C33F	Yes	Yes	Yes	Yes
NKVCJ4	Yes	Yes	Yes	Yes	RE4JGY	Yes	Yes	Yes	Yes
NXHJG6	Yes	Yes	Yes	Yes	RLVJER	No Interp	No Interp	No Interp	No Interp
P4KAZM	Yes	Yes	Yes	Yes	RVYV92	Yes	Yes	Yes	Yes
P9CEUQ	Yes	Yes	Yes	Yes	RWW77P	Yes	Yes	Yes	Yes
PBHLCJ	Yes	Yes	Yes	Yes	T6GYT7	Yes	Yes	Yes	Yes
PFVKTJ	Yes	Yes	Yes	Yes	T6LGQ4	No Interpretations Reported, DNA Analyzed for Database purposes only.			
PFY86Q	Yes	Yes	Yes	Yes	THQAMM	Yes	Yes	Yes	Yes
PLJ8L3	Yes	Yes	Yes	Yes	TM2PR6	Yes	Yes	Yes	Yes
PMU8HX	Yes	Yes	Yes	Yes	TYDTD3	Yes	Yes	No Interp	No Interp
PNNVY8	Yes	Yes	Yes	Yes	TZQMVN	Yes	Yes	Yes	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
TZTCZL	No Interp	No Interp	No Interp	No Interp	WWYM7H	Yes	Yes	Yes	Yes
U2YWLZ	Yes	Yes	Yes	Yes	WZYX2H	Yes	Yes	Yes	Yes
UJY4FT	Yes	Yes	Yes	Yes	X3GC6J	Yes	Yes	Yes	Yes
UMXH3H	Yes	Yes	Yes	Yes	X4DV8K	Yes	Yes	Yes	Yes
URDTFL	Yes	Yes	Yes	Yes	XDVG99	Yes	Yes	Yes	Yes
UT7LFB	Yes	Yes	Yes	Yes	XKHZUW	Yes	Yes	Yes	Yes
UTK9PD	Yes	Yes	Yes	Yes	XQ36KC	Yes	Yes	Yes	Yes
UZ4HTF	Yes	Yes	Yes	Yes	XWBQ99	Yes	Yes	Yes	Yes
V8JEGM	Yes	Yes	Yes	Yes	Y4RERG	Yes	Yes	Yes	Yes
VGAZML	Yes	Yes	Yes	Yes	Y62NGT	Yes	Yes	Yes	Yes
VGPERA	Yes	Yes	Yes	Yes	Y6NREA	Yes	Yes	Yes	Yes
VR8ZYP	Yes	Yes	Yes	Yes	YCMJKH	Yes	Yes	Yes	Yes
VW3PHH	Yes	Yes	Yes	Yes	YEMWXA	Yes	Yes	Yes	Yes
VYQ48R	Yes	Yes	Yes	Yes	YQG9EU	No Interp	No Interp	No Interp	No Interp
VZKRM3	Yes	Yes	Yes	Yes	YRF9FF	Yes	Yes	Yes	Yes
WBHAFG	Yes	Yes	Yes	Yes	YVXBLZ	Yes	Yes	Yes	Yes
WBYBEC					Z2Y6W7	Yes	Yes	Yes	Yes
WD7N4Q	Yes	Yes	Yes	Yes	Z6A7WQ	Yes	Yes	Yes	Yes
WMAX9V	Yes	Yes	Yes	Yes	Z6G6E8	Yes	Yes	Yes	Yes
WUT2FX	Yes	Yes	Yes	Yes	Z7CUCA	Yes	Yes	Yes	Yes
WWFLL2	Yes	Yes	Yes	Yes	Z8NKLD	Yes	Yes	Yes	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
ZCHGB6	Yes	Yes	No Interp	No Interp					
ZQZCLU	Yes	Yes	Yes	Yes					
ZUYNJF	Yes	Yes	Yes	Yes					
ZXHPH9	Yes	Yes	Yes	Yes					
ZYANW7	Yes	Yes	Yes	Yes					

<b>DNA Interpretation</b>					
<b>Response Summary</b>	<b>Participants reporting DNA results: 255</b>				
<i>Based on results obtained from DNA analysis, could the Victim (Item 1) and/or the Suspect (Item 2) be a contributor to the questioned stains (Items 3 &amp; 4)?</i>					
		Victim (Item 1)		Suspect (Item 2)	
		<u>Item 3</u>	<u>Item 4</u>	<u>Item 3</u>	<u>Item 4</u>
Yes		<b>231</b>	<b>230</b>	<b>227</b>	<b>225</b>
No		<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>
Inc		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
No Interpretation		<b>17</b>	<b>18</b>	<b>21</b>	<b>22</b>
No Response		<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>

Participants analyzing DNA for database purposes only: 7



# Additional Comments

TABLE 5

WebCode	Additional Comments
22FFB6	NR = No DNA result
243ZFA	Allele tables entered through automatic upload
2B2PVT	NR = No Results. No comparisons performed.
2EMAZW	Stutter peaks left in for STRmix analysis
2G7N4W	STRmix
2V8ZYW	ND = No Data. NT = Not Tested. Inc = Inconclusive (possible drop out of sister allele). Items 1 and 2 were also amplified using PowerPlex Fusion Direct-Amp. Testing for the presence of human blood is performed on Items 3 and 4 with the ABACard HemaTrace test kit. This kit is known to cross-react with some species of the Mustelidae family and with higher primates. Sperm cells were identified on Item 3 through microscopic examination.
3AMFJ8	NR = no results
3DYMHQ	NR = No Result
3GMYJG	Test participant functions as a Y-screen technician. Interpretations not reported.
3ZDB8G	Test participant functions as a Y-screen technician. Interpretations not reported.
43KQF8	NR = No Results. Samples analyzed and reported using Genemapper ID-X. STRmix analysis was conducted on this test.
468ER8	The ITEM 3 and ITEM 4 samples showed the same mixed genetic profile. We repeated the sampling twice and consistently obtained the same result, confirming that both individuals indeed contributed to the samples. The Victim Item 1 can be considered as contributor to the mixtures Item 3 and Item 4. The suspect Item 2 also can be considered as a contributor. The better hypotheses that explain the mixtures is the following: Hp: Item 3 (and Item 4) originate from Victim Item 1 + Suspect Item 2; Hd: Item 3 (and Item 4) originate from Victim Item 1 + 1 Unknown. The value of LR is 9.7260E28
4C9LG9	NR = No Results. STRmix analysis was conducted on this test. Data reported out in this test is from analysis using GeneMapper ID-X.
4HEFAJ	STRmix analysis was conducted on this test.
4JK3MN	N/A = Not Applicable
6BAZ2M	NA= Not applicable
6DEQ7G	No data was reported for Q1.4.1s as it stopped at quantitation due to insufficient human. STRmix analysis was conducted on this test.

TABLE 5

WebCode	Additional Comments
6NW8Z9	Extraction : 1) Item 1 and Item 2 were extracted by in-situ extraction method. 2) Item 3 were extracted using Chelex differential extraction method. 2) Item 4 was extracted using DNA Investigator Kit via QIASymphony SP. Quantification : Item 3 and Item 4 were quantified using Quantifiler Trio DNA Quantitation Kit on QuantStudio 5. Amplifications : 1) Item 1 and Item 2 were amplified using the Globalfiler Express PCR Kit on Proflex PCR System. 2) Item 3 and Item 4 were amplified using the GlobalFiler PCR Amplification Kit on 9700 GeneAmp PCR System. 3) Item 1, Item 3 and Item 4 were also amplified using AmpFISTR YFiler Kit on 9700 GeneAmp PCR System. Electrophoresis : Capillary electrophoresis on all amplified samples (Globalfiler Express, Globalfiler PCR and YFiler) were carried out on Genetic Analyzer 3500xL. Quality Control : Reagent Blank, Positive Control and Negative Control were carried out along with the analysis and all gave the intended results. NM : non-male profile.
6PKL6K	Y-Haplotype analysis was performed using Argus-Y28 kit.
7A8PHP	Direct-amp performed on the known samples, followed v1.3 of the "PowerPlex Fusion Direct-Amp & Detect on 3500 protocol."
7LPA3L	1. NR indicates no result. 2. Both Item 3 and Item 4 tested positive for Kastle-Meyer test, a presumptive test for blood. 3. Sperm were observed under microscopy examination of Item 3.
7PK6JZ	Extraction: Item 1 and Item 2 were extracted using in-situ method. Item 3 was extracted using Chelex differential extraction method while Item 4 was extracted using Automate Express Forensic DNA Extraction System with PrepFiler Express Kit method. Quantification: DNA quantitation for Item 3 and Item 4 were carried out using the Quantifiler Human DNA Quantification kit with Applied Biosystem QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using GlobalFiler Express PCR Amplification kit on 9700 GeneAmp PCR System. Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification kit on 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification was carried out on Item 1, Item 3 and Item 4 using AmFISTR Y-Filer kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 1 and Item 2 (GlobalFiler Express) and Item 3 and Item 4 (GlobalFiler). Electrophoresis for Y-Filer was carried out on Genetic Analyzer 3500xl for Item 1, Item 3 and Item 4. Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results. Abbreviation: NM: Non-male Profile.
7QWKDZ	Extraction: -Item 1 and Item 2 were punched using 1.2 mm size puncher and the FTA disc was subjected for direct amplification. -Item 3 was extracted using the Chelex extraction method. -Item 4 was extracted using the PrepFiler Express method. Quantification: -Item 3 (sp), Item 3 (epi) and Item 4 were quantified using the Applied Biosystems Quantifiler Trio DNA Quantification Kit on QuantStudio 5 Real-Time PCR. Amplification: -Item 1 and Item 2 were amplified using the Globalfiler Express Amplification Kit. -Item 3 (sp), Item 3 (epi) and Item 4 were amplified using the Globalfiler Amplification Kit. -Item 1, Item 3 (sp), Item 3 (epi) and Item 4 were amplified using the Y-Filer Kit. -All amplifications were performed on Proflex PCR System. Electrophoresis: -All amplified products were run on the Genetic Analyzer 3500. Quality Control: -Reagent blank, positive control and negative control were carried out throughout the analysis and all gave the intended results. Remarks: -NM: Non-male profile
7TL8PN	NR=No results
86H87Y	Y-STR only
8G7AM7	-The data reported out in this test is from analysis using GeneMapper ID-X. -STRmix analysis was conducted on this test. NR = No results.
8GQDTK	N/A = Not applicable
92RQ2J	NA - Not applicable
99AWZB	Test participant functions as a Y-screen technician. Interpretations not reported.

TABLE 5

WebCode	Additional Comments
9N6J74	NR = No Results. STRmix analysis was conducted on this test. Reported data is from analysis using GeneMapper ID-X.
9WFKR4	NR=No Results. STRmix analysis was conducted on this test. Data reported out in this test is from analysis using GeneMapper ID-X.
A4B66J	NR = No Result
A7YG7A	test participant functions as a Y-screen technician and does not perform interpretations.
AULEKC	STRmix analysis was conducted on this test. Item 4 was extracted via differential separation, per laboratory protocol. Male DNA was detected in the sperm fraction, but stopped at quant due to other probative samples were selected for testing. The report will reflect the non-sperm fraction (epi-fraction) only.
BL9Q3V	Extraction: Item 3 and Item 4 were extracted using the Chelex extraction method. Quantification: Item 3 and Item 4 were quantified using the Applied Biosystems™ Quantifiler™ Human DNA Quantification Kit on the Applied Biosystems™ QuantStudio™ 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using the Applied Biosystems™ GlobalFiler™ Express PCR Amplification Kit on the Applied Biosystems™ ProFlex™ 96-well PCR System. By using the in-situ method, Item 1 was also amplified using the Applied Biosystems™ AmpFLSTR™ Yfiler™ PCR Amplification Kit on the Applied Biosystems™ GeneAmp™ PCR System 9700. Item 3 and Item 4 were amplified using the Applied Biosystems™ GlobalFiler™ and AmpFLSTR™ Yfiler™ PCR Amplification Kits on the Applied Biosystems™ GeneAmp™ PCR System 9700. Electrophoresis: Electrophoresis was carried out on the Applied Biosystems™ 3500xL Genetic Analyzer and the data were analyzed with Applied Biosystems™ GeneMapper™ ID-X Software v1.5. Quality Control: Reagent Blank, Positive Control and Negative Control were included throughout the analysis and all gave intended results. Remark: 'NM' denotes non-male profile.
BNZJJ9	Test participant functions as a Y-screen technician. No interpretations reported.
CEM97Y	NR = No results. STRmix analysis was conducted on this test. Data reported is from analysis using Genemapper ID-X.
CK947H	NR=No result. Note: Item 1-3.1-S: Potential allele below threshold (bin 21, 436.01bp, 202 rfu) observed at DYS570 cannot be differentiated from an artifact.
D37J8U	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. Powerplex Fusion 6C is used only for allele verification. Item 3 Sp at locus D3S1358 - There is a minor allele 18, which is inconsistent with being a contributor to the overall profile. The average peak height ratio for this allele to the N+1 allele is 13.93%, exceeding the Laboratory's stutter threshold for this locus of 10.98%. This allele is likely to be an elevated stutter.
DE3RNC	Item 2 contributor was consistent with being present below ST in the profile from Item 4. Item 4 was re-sampled and re-processed and similar results were obtained.
DEMBUJ	ND = no data. NT = not tested. Hematrace test performed on item 3 & 4, blood was identified on items 3 & 4. Sperm search performed on item 3, sperm cells were identified on item 3. Items 1 & 2 were also amplified using the Direct Amplification procedure.
EANCUD	N/A = Not Applicable
EJQRHX	NR=no results. Data reported out is from analysis using GeneMapper ID-X STRmix analysis was performed on this test.
EN72V2	Not authorized to perform comparisons.

TABLE 5

WebCode	Additional Comments
EPCW7R	Regarding Item 3 specifically. The seminal fraction was single source profile which matched that of the Victim (Item 1). The cellular fraction was a mixed DNA result to which both Victim (Item 1) and Suspect (Item 2) could have contributed DNA.
EX8PMX	Item 1, Item 2, Item 3, and Item 4 were analyzed using PowerPlex Fusion 5C. Item 1, Item 3, and Item 4 were analyzed using Yfiler Plus. Autosomal data reported out for Item 1, Item 2, Item 3, and Item 4 is from analysis using GeneMapper ID-X. Y-STR Data is reported out from analysis using GeneMapper ID-X. STRmix Analysis was conducted on Item 3e and Item 4. NR=No Results
EZYQNF	NR = No Result
F3HZD8	STRmix analysis was conducted on this test.
FPBCZ4	Test participant functions as a Y-screen analyst, no interpretations reported. In Item 3sp, the 18 at D3S1358 is 13.09% of the 19 allele. The laboratory stutter filter at that locus is 12.41%. Based upon results at remaining loci, this is likely elevated stutter. Had interpretations be advanced, the profile would have been analyzed via STRmix and the stutter probabilistically assessed.
FPWPPG	ND=no data. The ABACard HemaTrace test kit is known to cross-react with some species of the Mustelidae family and with higher primates.
GFZ8PX	Analyst is only competent in Known standard analysis. Therefore, no DNA testing of unknowns (including analysis and comparisons) was performed.
GGEVQP	1) Results are entered only for GlobalFiler loci, as casework reporting is on GlobalFiler loci. Powerplex Fusion 6C is used only for allele verification. 2) Item 3 (sp), locus D3S1358 - Minor allele 18 is inconsistent with being a contributor to the overall profile. The average peak height ratio of this allele to the N+1 allele is 15.73%, exceeding the Laboratory's stutter threshold for this locus of 10.98%. This allele is likely an elevated stutter.
H22MN2	Test participant functions as a Y-screen technician. Interpretations not reported.
H3UGMQ	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification. Item 3 sp at locus D3S1358 – There is a minor allele 18, which is inconsistent with being a contributor to the overall profile. The average peak height ratio of this allele to the N+1 allele is 14.48%, exceeding the Laboratory's stutter threshold for this locus of 10.98%. This allele is likely to be an elevated stutter.
HDT9UW	Extraction: Item 1 and Item 2 were extracted using in-situ extraction method while Item 3 and Item 4 were extracted using QIAAsymphony DNA Investigator Kit via QIAAsymphony SP platform. Quantification: Item 3 and Item 4 were quantified using Quantifiler Trio DNA kit on RT-PCR QuantStudio 5 System. Amplification: Item 1 and Item 2 were amplified using GlobalFiler Express kit on Proflex PCR System while Item 3 and Item 4 were amplified using GlobalFiler kit on 9700 GeneAmp PCR System. Y-STR amplification was carried out on Item 1, Item 3 and Item 4 using AmFISTR YFiler kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis of GlobalFiler Express for Item 1 and Item 2, GlobalFiler for Item 3 and Item 4, and YFiler for Item 1, Item 3 and Item 4 were carried out on Genetic Analyzer 3500xL. Quality Control: Reagent blank, positive control and negative control were incorporated throughout analysis and all gave intended results. NM : non-male profile.
HMJWMD	The extract from Items 3 and 4 were tested for the presence of human blood using the ABACard HemaTrace test. Human blood was detected on Items 3 and 4. NOTE: the HemaTrace test is known to cross-react with some species of the Mustelidae family and with higher primates. Items 1 and 2 were also DNA profiled with Fusion DirectAmp kit. "n/a" means "not applicable", e.g., Y-STR loci in female DNA.

TABLE 5

WebCode	Additional Comments
JN8NCN	Item 3 (epithelial fraction) at locus D3S1358 – There is a minor allele 18, which is inconsistent with being a contributor to the overall profile. The average peak height ratio of this allele to the N+1 allele is 11.31%, exceeding the Laboratory's stutter threshold for this locus of 10.98%. This allele is likely to be an elevated stutter. Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. Powerplex Fusion 6C is used only for allele verification.
JP2EH4	STRmix analysis was conducted on this test
JY6NPT	NR = No Results. STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X.
K69U3B	NR= No Result
KBY6C9	NA=not applicable
LQPQV7	N/A=not applicable
LXNEPQ	Extraction: -Item 1 and Item 2 were extracted using in situ method. -Item 3 was extracted using differential extraction method and Item 4 was extracted using QIAAsymphony DNA Investigator kit via QIAAsymphony SP. Quantitation: -Item 3 and Item 4 were quantified using ABI Quantifiler Trio DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: -Item 1 and Item 2 were amplified using Globalfiler Express (GFE) kit on ABI Proflex PCR System. -Item 3 and Item 4 were amplified using Globalfiler Casework Amplification kit on ABI GeneAmp PCR System 9700. -Item 1, Item 3 and Item 4 were amplified using AmpFLSTR Yfiler PCR Amplification kit on ABI GeneAmp PCR System 9700. Electrophoresis: -Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4. -Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 3 and Item 4 (Y-filer). Quality Control: -Reagent blank, Positive Control and Negative Control were carried out during analysis all gave intended results. NM: Non-male allele.
M4U6UH	YSTR analysis not carried out.
MJJEY	STRmix analysis was conducted on this test.
NGDC4N	NR=no results. STRmix analysis was conducted on this test. Data reported out in this test is from analysis using GeneMapper ID-X.
NXHJG6	N/A = not applicable
P4KAZM	NR = No Results. Data reported is from analysis using GeneMapper ID-x STRmix analysis was performed on this test
PLJ8L3	ND = Not Detected. All potential alleles considered during deconvolution have been reported.
PNNVY8	Testing for the presence of human blood is performed with the ABACard HemaTrace test kit. This kit is known to cross-react with some species of the Mustelidae family and with higher primates. ND= No Data.
PNPR94	NR = No Result. NT = Not Tested.
PWHZR9	This is a no interpretation proficiency, only used for extraction, quant and amplification.
Q2NYJZ	Argus Y-28 was used for Y-Haplotype analysis.
QCQCYT	Test participant functions as a Y-screen technician. Interpretations not reported.

TABLE 5

WebCode	Additional Comments
QEJ6YH	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification. Item 3 sp at locus D3S1358 - There is a minor allele 18, which is inconsistent with being a contributor to the overall profile. The average peak height ratio of this allele to the N+1 allele is 13.19%, exceeding the Laboratory's stutter threshold for this locus of 10.98%. This allele is likely to be an elevated stutter.
QFDV4W	STRmix analysis was conducted on this test.
QVGMJ7	STRmix used, stutter left on.
R23WBF	Allele tables added by automatic upload
RLVJER	test participant functions as a Y-screen analyst and does not perform interpretations
RVYV92	NA = Not applicable
TM2PR6	Possible elevated stutter was left in for STRmix analysis.
TYDTD3	No interpretations were made for suspect (Item 2) because only the samples with male quant trio results were analyzed for DNA interpretations. Item 2 did not have a male quant trio result.
TZTCZL	No conclusions were made at this time as the analyst is not fully competent at this time.
U2YWLZ	NR = No Results
UMXH3H	NR = no results. STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X.
UTK9PD	NR = No DNA Result
VR8ZYP	STRmix analysis was conducted on this test. No YSTR testing was performed - analyst not trained in YSTR analysis.
VZKRM3	ND=Not Data. The extract from the Questioned blood and semen stain from victim's boxer shorts (green) (Item 3) and Questioned blood stain from suspect's shirt (yellow) (Item 4) was tested for the presence of human blood using the ABACard HemaTrace test. Human blood was detected on Items 3 and 4. NOTE: the HemaTrace test is known to cross-react with some species of the Mustelidae family and with higher primates. A portion of the extract from Item 3 was mounted on a slide and searched for sperm cells and epithelial cells under a microscope. Sperm cells and epithelial cells were identified. Items 1 and 2 underwent direct amplification with the Fusion kit. Two different DNA profiles were generated.
WBHAFG	Extraction: - Item 1 and Item 2 were extracted using in-situ method. Item 3 was extracted using differential extraction method and Item 4 were extracted using QIAAsymphony DNA Investigator Kit via QIAAsymphony SP. Quantification: - Item 3 and Item 4 were quantified using Applied Biosystem Quantifiler Trio DNA Quantification kit on QuantStudio 5 Real-Time PCR System. Amplification: - Item 1 and Item 2 were amplified using GlobalFiler Express Amplification kit on Proflex PCR system. Item 3 and Item 4 were amplified using GlobalFiler Amplification kit on GeneAmp 9700 system. Item 1, Item 3 and Item 4 were amplified using AmpFLSTR Y-Filer PCR Amplification Kit on GeneAmp 9700 system. Electrophoresis: - All amplified products were run on Genetic Analyzer 3500XL. Quality Control: - All reagent blank, positive control and negative control, were carried out throughout the analysis and all gave intended results. Remarks: - NM : Non-male profile.
WMAX9V	For mixed profiles the alleles entered include stutter peaks that are part of the STRmix analysis
WUT2FX	NR = No Results

TABLE 5

WebCode	Additional Comments
XKHZUW	NR = No Results
XWBQ99	<p>1. Extraction: In situ extraction method was used to extract DNA from Item 1 and Item 2. Chelex extraction method was used to extract DNA from Item 3 and Item 4. 2. Quantification: DNA quantification for Item 3 and Item 4 was carried out using Quantifiler Human DNA Quantification Kit with Applied Biosystem Real Time Polymerase Chain Reaction 7500 System. 3. Amplification: Amplification of STR (Short Tandem Repeat) Genetic Loci was carried out on Item 1 and Item 2 using the Globalfiler Express PCR Amplification Kit on the ProFlex PCR System while on Item 3 and Item 4 using the Globalfiler PCR Amplification Kit on the ProFlex PCR System. Amplification of Y-STR (Short Tandem Repeat) Genetic Loci was carried out on Item 1, Item 3 and Item 4 using the AmpFISTR Y-File PCR Amplification Kit on the 9700 GeneAmp PCR System. 4. Electrophoresis: Electrophoresis was carried out using Applied Biosystem 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 1 and Item 2 (Globalfiler Express) and Item 3 and Item 4 (Globalfiler). Electrophoresis for Y-File was carried out using Applied Biosystem 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 1, Item 3 and Item 4. 5. Reagent blank, positive control and negative control were carried out throughout the analysis and all give intended results. 6. 'NM' denotes non-male profile.</p>
Y4RERG	[Name] performed Y-screen, extraction, quantitation, amplification, and CE. The Y-screen results for items 3 and 4 are positive for male DNA. [Name] performed DNA interpretation.
Y62NGT	N/A: Not Applicable
YQG9EU	NR = No Result No comparisons performed.
Z2Y6W7	<p>Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification. Item 3 (sp) at locus D3S1358 – There is a minor allele 18, which is inconsistent with being a contributor to the overall profile. The average peak height ratio of allele 18 to the N+1 allele is 14.25%, exceeding the Laboratory's stutter threshold for this locus of 10.98%. This allele is likely to be an elevated stutter.</p>
Z6G6E8	NR= no DNA result
ZCHGB6	Only performing Y-STR
ZQZCLU	NR = No Result. Item 3 (1-3.1-S): peaks observed (18 at D3S1358 and 21 at DYS570) were unable to be differentiated from artifacts.

-End of Report-  
(Appendix may follow)

## Test No. 24-5806: DNA-Mixture

DATA MUST BE SUBMITTED BY **Dec. 16, 2024, 11:59 p.m. EST** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: VT2LQV

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

### Scenario:

Police are investigating a sexual assault involving a male victim and female suspect. The victim reported to police that the suspect attacked him, causing both parties to bleed. The suspect then forced the victim to have vaginal sex. The suspect has been apprehended. Police are submitting to your laboratory a stain from the boxer shorts the victim was wearing during the assault (Item 3) and a stain from the shirt the suspect was wearing at the time of arrest (Item 4). Screening tests have been performed on both samples with the following results: Item 3 (victim's boxer shorts) is positive for blood and semen, and Item 4 (suspect's shirt) is positive for blood. Also collected were known blood samples from the male victim (Item 1) and the female suspect (Item 2).

### Items Submitted (Sample Pack S6):

Item 1: Known blood from the male victim

Item 2: Known blood from the female suspect

Item 3: Questioned blood and semen stain from victim's boxer shorts (green)

Item 4: Questioned blood stain from suspect's shirt (yellow)





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

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X) and null responses.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].

**STR Amplification Kit(s) Used:**

Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, etc.).

Identifiler® 
 GlobalFiler™ 
 Investigator® 24plex 
  
 PowerPlex® 
 Other

Report the Probabilistic Genotyping Software Used (if applicable):

*Alleles below are sorted in Default order.*

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2						
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
2						
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
2						
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
2						
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
2						







## Part 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"/>	<input type="radio"/>
No	<input type="radio"/>	<input type="radio"/>	No	<input type="radio"/>	<input type="radio"/>
Inconclusive	<input type="radio"/>	<input type="radio"/>	Inconclusive	<input type="radio"/>	<input type="radio"/>
No Interpretation	<input type="radio"/>	<input type="radio"/>	No Interpretation	<input type="radio"/>	<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 ANAB and/or A2LA. Please select one of the following statements to ensure your data is handled appropriately.

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

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

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

ANAB Certificate No.

A2LA Certificate No.

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

Authorized Contact Person and Title

Laboratory Name

Location (City/State)