



DNA-Semen Test No. 17-5802 Summary Report

This proficiency test was sent to 212 participants. Each participant received a sample pack consisting of two known bloodstains and two questioned stains which they were requested to analyze using their existing protocols. Data were returned from 187 participants (88% response rate) and are compiled into the following tables:

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

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

Manufacturer's Information

Each sample pack consisted of two known bloodstains on FTA Micro cards (Items 1 & 2), and two questioned stains one on clean, black/white plaid material (Item 3) and one on clean, light blue patterned material (Item 4). Participants were requested to analyze these items using their existing protocols.

SAMPLE PREPARATION: The stains in Items 1, 2, and 3 were prepared from human whole blood which was either drawn into citric acid preservative blood bags or EDTA tubes. The stain in Item 4 was a mixture prepared from human whole blood and semen. The semen sample was received frozen from an outside supplier. The semen sample was first thawed and mixed 1:1 with TAE buffer, then mixed 1:1 with the blood. Items 1 (75 μ l) and 3 (50 μ l) were prepared using blood collected from a male donor. Item 2 (75 μ l) was prepared using blood collected from a different male donor. Item 4 (50 μ l) was a mixture of blood from a third party female and semen from the Item 2 male donor. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on March 06, 2017 following receipt of predistribution results.

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

VERIFICATION: Laboratories that conducted predistribution analysis of the samples reported consistent results and associations.

Manufacturer's Information, continued

Amelogenin and STR Results

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

Item	D1S1656	D2S1338	D2S441	D3S1358	D4S2408	D5S818
	D6S1043	D7S820	D8S1179	D9S1122	D10S1248	D12S391
	D13S317	D16S539	D17S1301	D18S51	D19S433	D20S482
	D21S11	D22S1045	Amelogenin	CSF1PO	FGA	Penta D
	Penta E	SE33	TH01	TPOX	vWA	
<hr style="border-top: 1px dashed #000;"/>						
1	15.3,17.3	24,25	11,14	15,16	*	10,11
	*	8,12	12,12	*	14,15	21,25
	11,12	11,11	*	17,18	12,14	*
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
<hr style="border-top: 1px dashed #000;"/>						
2	11,18.3	19,24	11,11.3	16,18	*	11,12
	*	9,10	14,14	*	14,16	18,23
	9,13	11,13	*	13,17	12,14	*
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	
<hr style="border-top: 1px dashed #000;"/>						
3	15.3,17.3	24,25	11,14	15,16	*	10,11
	*	8,12	12,12	*	14,15	21,25
	11,12	11,11	*	17,18	12,14	*
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
<hr style="border-top: 1px dashed #000;"/>						
4-Blood	14,15	17,17	10,11	15,16	*	11,13
	*	11,13	14,14	*	12,12	15,22
	11,11	11,11	*	13,19	14,15	*
	28,31	15,16	X,X	11,12	21,21	8,10
	5,8	17,25.2	6,9.3	8,11	16,18	
<hr style="border-top: 1px dashed #000;"/>						
4-Semen	11,18.3	19,24	11,11.3	16,18	*	11,12
	*	9,10	14,14	*	14,16	18,23
	9,13	11,13	*	13,17	12,14	*
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	

YSTR Results

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

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	DYS437	
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel
<hr style="border-top: 1px dashed #000;"/>											
1	*	15	13,15	12	29	21	10	11	14	15	
	10	11	22	*	16	17	*	21	*	*	
	*	10	12	18	16	*	*	21	11	11	2
<hr style="border-top: 1px dashed #000;"/>											
2	*	15	14,17	13	30	21	10	11	14	15	
	11	13	20	*	14	18	*	23	*	*	
	*	12	11	20	17	*	*	21	11	11	2
<hr style="border-top: 1px dashed #000;"/>											
3	*	15	13,15	12	29	21	10	11	14	15	
	10	11	22	*	16	17	*	21	*	*	
	*	10	12	18	16	*	*	21	11	11	2
<hr style="border-top: 1px dashed #000;"/>											
4-Semen	*	15	14,17	13	30	21	10	11	14	15	
	11	13	20	*	14	18	*	23	*	*	
	*	12	11	20	17	*	*	21	11	11	2

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

Summary Comments

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

Of the 187 participants that returned results, 15 did not report DNA interpretations. All 15 participants stated that they analyzed samples for database purposes only.

For the Item 3 stain, all 172 participants included the victim (Item 1) as a possible contributor and excluded the suspect (Item 2).

For the Item 4 stain, all 172 participants excluded the victim (Item 1) and included the suspect (Item 2) as a possible contributor.

Twenty seven participants reported allelic results that differed from the consensus/predistribution results. Of these, 22 reported additional alleles at one or more loci which includes one participant that also reported one inconsistent allele at the FGA locus. Of these 22 participants, 21 reported using probabilistic genotyping. A number of these participants stated that probabilistic genotyping could result in true stutter peaks being reported as possible alleles. Four participants reported inconsistent alleles at one or more loci. Finally, one participant was missing an allele at the FGA locus.

STR Amplification Kit(s) & Results

TABLE 1

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

Item 1 - STR Results

238Z86	PowerPlex® Fusion 5C					
	15.3,17.3	24,25	11,14	15,16		10,11
	1	8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
23MG6J	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
	1	8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
2B26YK	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
	1	8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
2DL8RC	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
	1	8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
2G69NJ	GlobalFiler™ Express					
	15.3,17.3	24,25	11,14	15,16	NT	10,11
	1	NT	8,12	12,12	NT	14,15
	11,12	11,11	NT	17,18	12,14	NT
	28,31.2	11,15	X,Y	11,11	21,21	NT
	NT	19,22.2	6,8	8,11	17,17	
2KLEME	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
	1	8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
2TYK4H	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
	1	8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	

TABLE 1

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

Item 1 - STR Results

33FQB7	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
3C6HVC	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
3D4KPN	Identifiler® Direct					
	-	24,25	-	15,16	-	10,11
1		8,12	12	-	-	-
	11,12	11	-	17,18	12,14	-
	28,31.2	-	X,Y	11	21	-
	-	-	6,8	8,11	17	
3G27E6	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
3PFNER	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
4DWTBC	Investigator® 24plex					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
687KNX	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	

TABLE 1

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

Item 1 - STR Results

6AC7DH	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
6ATE7J	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
6MYDBJ	PowerPlex® 21					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
6WPWQD	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
7FDUAG	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
7KBDCF	Identifiler® Plus, MiniFiler					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
7MW6GQ	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12	19,22.2	6,8	8,11	17	

TABLE 1

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

Item 1 - STR Results

7XFJH8	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
89TZQ6	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16	NT	10,11
1		8,12	12,12	NT	14,15	21,25
	11,12	11,11	NT	17,18	12,14	NT
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	NT	6,8	8,11	17,17	
8DNVPQ	PowerPlex® 16					
				15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18		
	28,31.2		X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
8EGNKA	GlobalFiler™ Express					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
8HX4WM	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
8MVMYL	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
8NNHJ9	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	

TABLE 1

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

Item 1 - STR Results

8THFBK	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
8WDBRY	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
8XTDX8	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
94FH73	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
9AKAJ7	PowerPlex® ESX 16 fast					
	15.3,17.3	24,25	11,14	15,16		
1			12		14,15	21,25
		11		17,18	12,14	
	28,31.2	11,15	X,Y		21	
			6,8		17	
9DN9Z7	GlobalFiler™ Express					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
9HXDKD	GlobalFiler™ Express					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	

TABLE 1

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

Item 1 - STR Results

A93RT6	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
ABVGF8	PowerPlex® 16					
				15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18		
	28,31.2		X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
AD24TC	PowerPlex® 16					
				15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18		
	28,31.2		X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
AE6Y99	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
AE7VJ4	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
AJ49P2	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
AMMALA	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	

TABLE 1

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

Item 1 - STR Results

ARUVCR	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
ATCMNW	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
AZ9JBZ	Identifiler® Direct					
		24,25		15,16		10,11
1		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
B2KWC2	PowerPlex® Fusion 6c					
	15.3,17.3	24,25	11,14	15,16	not tested	10,11
1	not tested	8,12	12,12	not tested	14,15	21,25
	11,12	11,11	not tested	17,18	12,14	not tested
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
BFLAQD	Identifiler®					
		24,25		15,16		10,11
1		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
BFX9J2	PowerPlex® FUSION					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
BMYG93	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	

TABLE 1

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

Item 1 - STR Results

BX2G7F	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
	8,12		12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
7,12		6,8	8,11	17,17		
C4K9M9	PowerPlex® Fusion 5C					
	15.3,17.3	24,25	11,14	15,16		10,11
	8,12		12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
7,12		6,8	8,11	17		
CEMMRE	PowerPlex® FUSION					
	15.3,17.3	24,25	11,14	15,16		10,11
	8,12		12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
7,12		6,8	8,11	17,17		
CJDYMB	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
	8,12		12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
7,12		6,8	8,11	17		
CME3GJ	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
	8,12		12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
19,22.2		6,8	8,11	17		
CVP4XD	Identifiler® Plus, PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
	8,12		12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
7,12	19,22.2	6,8	8,11	17,17		
D3LLMA	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
	8,12		12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
7,12		6,8	8,11	17		

TABLE 1

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

Item 1 - STR Results

D6ECZF	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
	1	8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
	19,22.2	6,8	8,11	17		
D8KWMF	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
	1	8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
	19,22.2	6,8	8,11	17		
DB4UC7	Investigator® 24plex					
	15.3,17.3	24,25	11,14	15,16		10,11
	1	8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
	19,22.2	6,8	8,11	17,17		
DBJDV4	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
	1	8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
	19,22.2	6,8	8,11	17,17		
DBYEWK	Identifiler®					
		24,25		15,16		10,11
	1	8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
		6,8	8,11	17		
DJTKUR	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
	1	8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
	19,22.2	6,8	8,11	17		
DJW8AK	Investigator® 24plex					
	15.3,17.3	24,25	11,14	15,16		10,11
	1	8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
	19,22.2	6,8	8,11	17,17		

TABLE 1

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

Item 1 - STR Results

DKPXEY	PowerPlex® FUSION					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
DXQTB7	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
E2TW28	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
E6AAMF	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
EA3HP2	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
EC6JPY	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
EEUMH7	PowerPlex® FUSION - ESX					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	

TABLE 1

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

Item 1 - STR Results

EFNC68	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12	19,22.2	6,8	8,11	17	
ELUZMF	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
ELVZFN	Identifiler® Identifiler Direct					
		24,25		15,16		10,11
1		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
EPW38B	Identifiler® Direct					
	-	24,25	-	15,16	-	10,11
1		8,12	12	-	-	-
	11,12	11	-	17,18	12,14	-
	28,31.2	-	X,Y	11	21	-
	-	-	6,8	8,11	17	
ETD977	PowerPlex® 16					
				15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18		
	28,31.2		X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
EYGCUJ	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12	19,22.2	6,8	8,11	17	
F6LDTR	Identifiler® +					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	

TABLE 1

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

Item 1 - STR Results

FAVU2F	PowerPlex® Fusion 6C					
	15,3,17,3	24,25	11,14	15,16		10,11
	8,12		12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
7,12	19,22.2	6,8	8,11	17		
FBUPTY	Identifiler® Plus					
		24,25		15,16		10,11
	8,12		12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
		6,8	8,11	17,17		
FP8A7W	PowerPlex® Fusion					
	15,3,17,3	24,25	11,14	15,16	NOT TESTED	10,11
	NOT TESTED	8,12	12,12	NOT TESTED	14,15	21,25
	11,12	11,11	NOT TESTED	17,18	12,14	NOT TESTED
	28,31.2	11,15	X,Y	11,11	21,21	9,10
7,12	NOT TESTED	6,8	8,11	17,17		
FWAEYG	Identifiler®					
		24,25		15,16		10,11
	8,12		12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
		6,8	8,11	17,17		
GC3972	GlobalFiler™					
	15,3,17,3	24,25	11,14	15,16	-	10,11
	-	8,12	12,12	-	14,15	21,25
	11,12	11,11	-	17,18	12,14	-
	28,31.2	11,15	X,Y	11,11	21,21	-
-	19,22.2	6,8	8,11	17,17		
GCHKTC	GlobalFiler™					
	15,3,17,3	24,25	11,14	15,16		10,11
	8,12		12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
	19,22.2	6,8	8,11	17		
GL3YPM	GlobalFiler™					
	15,3,17,3	24,25	11,14	15,16		10,11
	8,12		12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
	19,22.2	6,8	8,11	17		

TABLE 1

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

Item 1 - STR Results

GLQ683	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
GQYPVY	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
GTRH2	PowerPlex® Fusion 6C, GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
H7AJ89	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
H9F4V9	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
HFDW43	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
HG8PWZ	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	

TABLE 1

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

Item 1 - STR Results

HUWNN4	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
HUXC83	Identifiler® Plus					
	NA	24,25	NA	15,16	NA	10,11
1		8,12	12,12	NA	NA	NA
	11,12	11,11	NA	17,18	12,14	NA
	28,31.2	NA	X,Y	11,11	21,21	NA
	NA	NA	6,8	8,11	17,17	
HZ26GX	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
J8HZXR	Identifiler® Direct					
		24,25		15,16		10,11
1		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
JBLPJ9	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
JDL3Z8	Identifiler® Direct					
		24,25		15,16		10,11
1		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
JEW7AP	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	

TABLE 1

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

Item 1 - STR Results

JFB9K4	Identifiler® Plus					
		24,25		15,16		10,11
1		8,[12]	12,12			
		11,12	11,11	17,18	12,[14]	
		28,31.2	X,Y	11,11	21,21	
			6,8	8,11	17,17	
JLHUC8	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
		11,12	11	17,18	12,14	
		28,31.2	11,15	X,Y	11	21
		19,22.2	6,8	8,11	17	
JTEW9R	Identifiler® Direct					
		24,25		15,16		10,11
1		8,12	12			
		11,12	11	17,18	12,14	
		28,31.2	X,Y	11	21	
			6,8	8,11	17	
JWZJ6K	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
		11,12	11,11	17,18	12,14	
		28,31.2	11,15	X,Y	11,11	21,21
		7,12	6,8	8,11	17,17	9,10
JZW8LR	Identifiler® Direct					
		24,25		15,16		10,11
1		8,12	12			
		11,12	11	17,18	12,14	
		28,31.2	X,Y	11	21	
			6,8	8,11	17	
KHWEDY	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
		11,12	11	17,18	12,14	
		28,31.2	11,15	X,Y	11	21
		19,22.2	6,8	8,11	17	
KJ7MHD	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
		11,12	11,11	17,18	12,14	
		28,31.2	11,15	X,Y	11,11	21,21
		19,22.2	6,8	8,11	17,17	

TABLE 1

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

Item 1 - STR Results

KLUXFX	PowerPlex® ESX17, GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
KRXZFR	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
LHTAEG	PowerPlex® Fusion 5C					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
LHTC4K	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
LJ4ADW	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
LKVACT	PowerPlex® 16 ESX, Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
LUPEN3	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	

TABLE 1

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

Item 1 - STR Results

LWB6RR	PowerPlex® FUSION					
	15.3,17.3	24,25	11,14	15,16	NT	10,11
1	NT	8,12	12,12	NT	14,15	21,25
	11,12	11,11	NT	17,18	12,14	NT
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	NT	6,8	8,11	17,17	
M64PF6	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
M6JA2N	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
M7VT3K	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
M8R9EH	PowerPlex® Fusion Direct					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
ME6D83	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
MFKN7	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	

TABLE 1

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

Item 1 - STR Results

MW6694	Identifiler® DIRECT					
		24,25		15,16		10,11
1		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
NB3WAY	Identifiler® Plus, MiniFiler					
		24,25		15,16		10,11
1		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
NH32GH	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
NPJPZQ	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
NT3QYJ	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
NW28AR	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
NW2ZB7	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	

TABLE 1

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

Item 1 - STR Results

NZ29H2	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12,12			
		11,12	11,11	17,18	12,14	
		28,31.2	X,Y	11,11	21,21	
			6,8	8,11	17,17	
P6CNGR	PowerPlex® ESX17, GlobalFiler™ Express					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
		11,12	11,11	17,18	12,14	
		28,31.2	11,15	X,Y	11,11	21,21
		19,22.2	6,8	8,11	17,17	
P6DET2	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
		11,12	11,11	17,18	12,14	
		28,31.2	11,15	X,Y	11,11	21,21
		7,12	6,8	8,11	17,17	9,10
PN4R2Y	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
		11,12	11,11	17,18	12,14	
		28,31.2	11,15	X,Y	11,11	21,21
		19,22.2	6,8	8,11	17,17	
PYN4DC	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
		11,12	11	17,18	12,14	
		28,31.2	11,15	X,Y	11	21
		7,12	6,8	8,11	17	9,10
Q7KBDW	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12,12			
		11,12	11,11	17,18	12,14	
		28,31.2	X,Y	11,11	21,21	
			6,8	8,11	17,17	
QFRXKC	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
		11,12	11	17,18	12,14	
		28,31.2	11,15	X,Y	11	21
		19,22.2	6,8	8,11	17	

TABLE 1

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

Item 1 - STR Results

QPFDPV	Identifiler® Plus					
	N/A	24,25	N/A	15,16	N/A	10,11
1	N/A	8,12	12,12	N/A	N/A	N/A
	11,12	11,11	N/A	17,18	12,14	N/A
	28,31.2	N/A	X,Y	11,11	21,21	N/A
	N/A	N/A	6,8	8,11	17,17	
RMMDQV	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
RNDH3E	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
RNX28L	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16	Not tested	10,11
1	Not tested	8,12	12	Not tested	14,15	21,25
	11,12	11	Not tested	17,18	12,14	Not tested
	28,31.2	11,15	X,Y	11	21	9,10
	7,12	Not tested	6,8	8,11	17	
RT8HEP	PowerPlex® ESX17, GlobalFiler™ Express					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
TCGWAN	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
TKDRCT	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	

TABLE 1

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

Item 1 - STR Results

TNUWAN	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
TP8LFM		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
TUHGCJ	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
TUYX7C	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
TXGXLR	PowerPlex® ESX-17					
	15.3,17.3	24,25	11,14	15,16		
1			12		14,15	21,25
		11		17,18	12,14	
	28,31.2	11,15	X,Y		21	
		19,22.2	6,8		17	
TYQ3ZF	Identifiler® Direct, Identifiler					
		24,25		15,16		10,11
1		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	N/A
	N/A		6,8	8,11	17	
TYUMP6	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	

TABLE 1

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

Item 1 - STR Results

TZP49T	Identifiler® Plus						
	NA	24,25	NA	15,16	NA	10,11	
	1	NA	8,12	12,12	NA	NA	
		11,12	11,11	NA	17,18	12,14	NA
		28,31.2	NA	X,Y	11,11	21,21	NA
	NA	NA	6,8	8,11	17,17		
U3M77T	PowerPlex® Fusion						
	15.3,17.3	24,25	11,14	15,16		10,11	
	1	8,12	12		14,15	21,25	
		11,12	11		17,18	12,14	
		28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17		
U3PTPT	Identifiler® Plus						
		24,25		15,16		10,11	
	1	8,12	12,12				
		11,12	11,11		17,18	12,14	
		28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17		
U9YWU9	Identifiler® Direct, Identifiler						
		24,25		15,16		10,11	
	1	8,12	12				
		11,12	11		17,18	12,14	
		28,31.2		X,Y	11	21	N/A
	N/A		6,8	8,11	17		
UAAWTN	GlobalFiler™						
	15.3,17.3	24,25	11,14	15,16		10,11	
	1	8,12	12,12		14,15	21,25	
		11,12	11,11		17,18	12,14	
		28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17		
UB3M6U	Identifiler® Plus						
		24,25		15,16		10,11	
	1	8,12	12				
		11,12	11		17,18	12,14	
		28,31.2		X,Y	11	21	
			6,8	8,11	17		
UB3PN8	GlobalFiler™						
	15.3,17.3	24,25	11,14	15,16		10,11	
	1	8,12	12,12		14,15	21,25	
		11,12	11,11		17,18	12,14	
		28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17		

TABLE 1

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

Item 1 - STR Results

UB4F2G	PowerPlex® 21					
	15.3,17.3	24,25		15,16		10,11
1	13,14	8,12	12,12			21,25
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
VFD6TP	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
VHX6VQ	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
VLGYXJ	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
VTXKWN	PowerPlex® FUSION					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
VW2B6P	PowerPlex® Fusion 5C, GlobalFiler™, Investigator® 24plex					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
WJMTQR	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	

TABLE 1

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

Item 1 - STR Results

WK4UTT	Identifiler® Direct					
	-	24,25	-	15,16	-	10,11
1	-	8,12	12	-	-	-
	11,12	11	-	17,18	12,14	-
	28,31.2	-	X,Y	11	21	-
	-	-	6,8	8,11	17	
WQ8VTM	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
WX6PRL	PowerPlex® Fusion 5C					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
WY3ZK4	Identifiler®					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
X8BPZM	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
X96HV7	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
XAB3GK	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	

TABLE 1

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

Item 1 - STR Results

XE7UPH	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
	8,12		12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
XJK68R	NGM SElect					
	15.3,17.3	24,25	11,14	15,16		
	8,12		12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y		21,21	
	19,22.2		6,8		17,17	
XWCWPB	Identifiler® Plus					
		24,25		15,16		10,11
	8,12		12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
		6,8	8,11	17,17		
XXL7FM	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
	8,12		12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
XZQUYJ	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
	8,12		12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
Y87R3W	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
	8,12		12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12	19,22.2	6,8	8,11	17	
YDTDEP	Identifiler® Plus, MiniFiler					
		24,25		15,16		10,11
	8,12		12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
		6,8	8,11	17		

TABLE 1

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

Item 1 - STR Results

YEN3GX	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12	19,22.2	6,8	8,11	17	
YHLLFB	Identifiler® Direct					
		24,25		15,16		10,11
1		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
YKDFHL	Identifiler®					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
YKR74B	Identifiler® Direct					
	N/A	24,25	N/A	15,16	N/A	10,11
1	N/A	8,12	12	N/A	N/A	N/A
	11,12	11	N/A	17,18	12,14	N/A
	28,31.2	N/A	X,Y	11	21	N/A
	N/A	N/A	6,8	8,11	17	
YMZCNQ	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
YTM6VJ	PowerPlex® Fusion-6C					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
Z3U7UP	Identifiler® Direct					
	-	24,25	-	15,16	-	10,11
1	-	8,12	12	-	-	-
	11,12	11	-	17,18	12,14	-
	28,31.2	-	X,Y	11	21	-
	-	-	6,8	8,11	17	

TABLE 1

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

Item 1 - STR Results

ZGMZ3A	Identifiler® Plus					
		24,25		15,16		10,11
1		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
ZL47Z6	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
ZQVBUA	Identifiler®					
		24,25		15,16		10,11
1		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
ZVRWMX	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
1		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12	19,22.2	6,8	8,11	17	
ZW3Y8B	Identifiler® direct					
		24,25		15,16		10,11
1		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	n/a
	n/a		6,8	8,11	17	

TABLE 1

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

Item 2 - STR Results

238Z86	PowerPlex® Fusion 5C					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10		14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5		9,9.3	8,9	16,17	
23MG6J	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10		14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
2B26YK	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10		14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	
2DL8RC	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10		14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	
2G69NJ	GlobalFiler™ Express					
	11,18.3	19,24	11,11.3	16,18	NT	11,12
2	NT	9,10	14,14	NT	14,16	18,23
	9,13	11,13	NT	13,17	12,14	NT
	29,31.2	11,15	X,Y	10,12	21,23	NT
	NT	19,28.2	9,9.3	8,9	16,17	
2KLEME	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10		14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5		9,9.3	8,9	16,17	
2TYK4H	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10		14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

33FQB7	Identifiler® Plus					
		19,24		16,18		11,12
2		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
3C6HVC	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
3D4KPN	Identifiler® Direct					
	-	19,24	-	16,18	-	11,12
2		9,10	14	-	-	-
	9,13	11,13	-	13,17	12,14	-
	29,31.2	-	X,Y	10,12	21,23	-
	-	-	9,9.3	8,9	16,17	
3G27E6	Identifiler® Plus					
		19,24		16,18		11,12
2		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
3PFNER	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
4DWTBC	Investigator® 24plex					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
687KNX	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

6AC7DH	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10 14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5		9,9.3	8,9	16,17	
6ATE7J	Identifiler® Plus, MiniFiler					
		19,24		16,18		11,12
2	9,10 14,14					
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
6MYDBJ	PowerPlex® 21					
		19,24		16,18		11,12
2	9,10 14,14					
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
6WPWQD	Identifiler® Plus					
		19,24		16,18		11,12
2	9,10 14,14					
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
7FDUAG	Identifiler® Plus					
		19,24		16,18		11,12
2	9,10 14					
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
7KBDCF	Identifiler® Plus					
		19,24		16,18		11,12
2	9,10 14,14					
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
7MW6GQ	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10 14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5	19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

7XFJH8	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
89TZQ6	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18	NT	11,12
2	NT	9,10	14,14	NT	14,16	18,23
	9,13	11,13	NT	13,17	12,14	NT
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	NT	9,9.3	8,9	16,17	
8DNVPQ	PowerPlex® 16					
				16,18		11,12
2		9,10	14,14			
	9,13	11,13		13,17		
	29,31.2		X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
8EGNKA	GlobalFiler™ Express					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
8HX4WM	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
8MVMYL	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
8NNHJ9	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

8THFBK	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10 14,14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	
8WDBRY	Identifiler® Plus					
		19,24		16,18		11,12
2	9,10 14,14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
8XTDX8	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10 14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5		9,9.3	8,9	16,17	
94FH73	Identifiler® Plus					
		19,24		16,18		11,12
2	9,10 14,14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
9AKAJ7	PowerPlex® ESX 16 Fast					
	11,18.3	19,24	11,11.3	16,18		
2	14 14,16 18,23					
		11,13		13,17	12,14	
	29,31.2	11,15	X,Y		21,23	
			9,9.3		16,17	
9DN9Z7	GlobalFiler™ Express					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10 14,14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
9HXDKD	GlobalFiler™ Express					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10 14,14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

A93RT6	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10 14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5		9,9.3	8,9	16,17	
ABVGF8	PowerPlex® 16					
				16,18		11,12
2	9,10 14,14					
	9,13	11,13		13,17		
	29,31.2		X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
AD24TC	PowerPlex® 16					
				16,18		11,12
2	9,10 14,14					
	9,13	11,13		13,17		
	29,31.2		X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
AE6Y99	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10 14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
AE7VJ4	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10 14,14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
AJ49P2	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10 14,14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
AMMALA	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10 14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

ARUVCR	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
ATCMNW	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
AZ9JBZ	Identifiler® Direct					
		19,24		16,18		11,12
2		9,10	14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
B2KWC2	PowerPlex® Fusion 6c					
	11,18.3	19,24	11,11.3	16,18	not tested	11,12
2	not tested	9,10	14,14	not tested	14,16	18,23
	9,13	11,13	not tested	13,17	12,14	not tested
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	
BFLAQD	Identifiler®					
		19,24		16,18		11,12
2		9,10	14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
BFX9J2	PowerPlex® FUSION					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
BMYG93	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

BX2G7F	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
	2	9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	9,9.3	8,9	16,17		
C4K9M9	PowerPlex® Fusion 5C					
	11,18.3	19,24	11,11.3	16,18		11,12
	2	9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5	9,9.3	8,9	16,17		
CEMMRE	PowerPlex® FUSION					
	11,18.3	19,24	11,11.3	16,18		11,12
	2	9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	9,9.3	8,9	16,17		
CJDYMB	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
	2	9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5	9,9.3	8,9	16,17		
CME3GJ	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
	2	9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
CVP4XD	Identifiler® Plus, PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
	2	9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	
D3LLMA	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
	2	9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5	9,9.3	8,9	16,17		

TABLE 1

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

Item 2 - STR Results

D6ECZF	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
D8KWMF	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
DB4UC7	Investigator® 24plex					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
DBJDV4	GlobalFiler™, Investigator® 24plex					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
DBYEWK	Identifiler®					
		19,24		16,18		11,12
2		9,10	14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
DJTKUR	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
DJW8AK	Investigator® 24plex					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

DKPXEY	PowerPlex® FUSION					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
DXQTB7	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	
E2TW28	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	
E6AAMF	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
EA3HP2	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
EC6JPY	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
EEUMH7	PowerPlex® FUSION-ESX					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5		9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

EFNC68	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5	19,28.2	9,9.3	8,9	16,17	
ELUZMF	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
ELVZFN	Identifiler® Identifiler Direct					
		19,24		16,18		11,12
2		9,10	14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
EPW38B	Identifiler® Direct					
	-	19,24	-	16,18	-	11,12
2		9,10	14	-	-	-
	9,13	11,13	-	13,17	12,14	-
	29,31.2	-	X,Y	10,12	21,23	-
	-	-	9,9.3	8,9	16,17	
ETD977	PowerPlex® 16					
				16,18		11,12
2		9,10	14,14			
	9,13	11,13		13,17		
	29,31.2		X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
EYGCUJ	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5	19,28.2	9,9.3	8,9	16,17	
F6LDTR	Identifiler® +					
		19,24		16,18		11,12
2		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

FAVU2F	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5	19,28.2	9,9.3	8,9	16,17	
FBUPTY	Identifiler® Plus					
		19,24		16,18		11,12
2		9,10	14,14			
	19,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
FP8A7W	PowerPlex® FUSION					
	11,18.3	19,24	11,11.3	16,18	NOT TESTED	11,12
2	NOT TESTED	9,10	14,14	NOT TESTED	14,16	18,23
	9,13	11,13	NOT TESTED	13,17	12,14	NOT TESTED
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	NOT TESTED	9,9.3	8,9	16,17	
FWAEYG	Identifiler®					
		19,24		16,18		11,12
2		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
GC3972	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18	-	11,12
2	-	9,10	14,14	-	14,16	18,23
	9,13	11,13	-	13,17	12,14	-
	29,31.2	11,15	X,Y	10,12	21,23	-
	-	19,28.2	9,9.3	8,9	16,17	
GCHKTC	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
GL3YPM	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

GLQ683	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
GQYPVY	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
GTRH2	PowerPlex® Fusion 6C, GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	
H7AJ89	PowerPlex® FUSION					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
H9F4V9	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	
HFDW43	Identifiler® Plus					
		19,24		16,18		11,12
2		9,10	14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
HG8PWZ	Identifiler® Plus					
		19,24		16,18		11,12
2		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

HUWNN4	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10 14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5		9,9.3	8,9	16,17	
HUXC83	Identifiler® Plus					
	NA	19,24	NA	16,18	NA	11,12
2	NA 9,10 14,14 NA NA NA					
	9,13	11,13	NA	13,17	12,14	NA
	29,31.2	NA	X,Y	10,12	21,23	NA
	NA	NA	9,9.3	8,9	16,17	
HZ26GX	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10 14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5		9,9.3	8,9	16,17	
J8HZXR	Identifiler® Direct					
		19,24		16,18		11,12
2	9,10 14					
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
JBLPJ9	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
2	9,10 14,14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	
JDL3Z8	Identifiler® Direct					
		19,24		16,18		11,12
2	9,10 14					
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
JEW7AP	Identifiler® Plus					
		19,24		16,18		11,12
2	9,10 14,14					
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

JFB9K4	Identifiler® Plus	19,24		16,18		11,12
2		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
JLHUC8	GlobalFiler™	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
JTEW9R	Identifiler® Direct	19,24		16,18		11,12
2		9,10	14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
JWZJ6K	PowerPlex® Fusion	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
JZW8LR	Identifiler® Direct	19,24		16,18		11,12
2		9,10	14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
KHWEDY	GlobalFiler™	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
KJ7MHD	GlobalFiler™	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

KLUXFX	PowerPlex® ESX17, GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
KRXZFR	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
LHTAEG	PowerPlex® Fusion 5C					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5		9,9.3	8,9	16,17	
LHTC4K	Identifiler® Plus					
		19,24		16,18		11,12
2		9,10	14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
LJ4ADW	Identifiler® Plus					
		19,24		16,18		11,12
2		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
LKVACT	PowerPlex® 16 ESX, Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	
LUPEN3	Identifiler® Plus					
		19,24		16,18		11,12
2		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

LWB6RR	PowerPlex® FUSION					
	11,18.3	19,24	11,11.3	16,18	NT	11,12
2	NT	9,10	14,14	NT	14,16	18,23
	9,13	11,13	NT	13,17	12,14	NT
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	NT	9,9.3	8,9	16,17	
M64PF6	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
M6JA2N	Identifiler® Plus					
		19,24		16,18		11,12
2		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
M7VT3K	Identifiler® Plus					
		19,24		16,18		11,12
2		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
M8R9EH	PowerPlex® Fusion Direct					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5		9,9.3	8,9	16,17	
ME6D83	Identifiler® Plus					
		19,24		16,18		11,12
2		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
MFKCN7	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

MW6694	Identifiler® DIRECT					
		19,24		16,18		11,12
2		9,10	14			
		9,13	11,13	13,17	12,14	
		29,31.2	X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
NB3WAY	Identifiler® Plus, MiniFiler					
		19,24		16,18		11,12
2		9,10	14			
		9,13	11,13	13,17	12,14	
		29,31.2	X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
NH32GH	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
		19,28.2	9,9.3	8,9	16,17	
NPJPZQ	Identifiler® Plus					
		19,24		16,18		11,12
2		9,10	14,14			
		9,13	11,13	13,17	12,14	
		29,31.2	X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
NT3QYJ	Identifiler® Plus					
		19,24		16,18		11,12
2		9,10	14			
		9,13	11,13	13,17	12,14	
		29,31.2	X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
NW28AR	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
		5,5	9,9.3	8,9	16,17	10,15
NW2ZB7	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
		5,5	9,9.3	8,9	16,17	10,15

TABLE 1

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

Item 2 - STR Results

NZ29H2	Identifiler® Plus	19,24		16,18		11,12
2		9,10	14,14			
		9,13	11,13	13,17	12,14	
		29,31.2	X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
P6CNGR	PowerPlex® ESX17, GlobalFiler™ Express					
		11,18.3	19,24	11,11.3	16,18	11,12
2		9,10	14,14		14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
			19,28.2	9,9.3	8,9	16,17
P6DET2	PowerPlex® Fusion					
		11,18.3	19,24	11,11.3	16,18	11,12
2		9,10	14,14		14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
		5,5		9,9.3	8,9	16,17
PN4R2Y	PowerPlex® Fusion 6C					
		11,18.3	19,24	11,11.3	16,18	11,12
2		9,10	14,14		14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
		5,5	19,28.2	9,9.3	8,9	16,17
PYN4DC	PowerPlex® Fusion					
		11,18.3	19,24	11,11.3	16,18	11,12
2		9,10	14		14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
		5		9,9.3	8,9	16,17
Q7KBDW	Identifiler® Plus					
		19,24		16,18		11,12
2		9,10	14,14			
		9,13	11,13	13,17	12,14	
		29,31.2	X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
QFRXKC	GlobalFiler™					
		11,18.3	19,24	11,11.3	16,18	11,12
2		9,10	14		14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
			19,28.2	9,9.3	8,9	16,17

TABLE 1

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

Item 2 - STR Results

QPFDPV	Identifiler® Plus					
	N/A	19,24	N/A	16,18	N/A	11,12
2	N/A	9,10	14,14	N/A	N/A	N/A
	9,13	11,13	N/A	13,17	12,14	N/A
	29,31.2	N/A	X,Y	10,12	21,23	N/A
	N/A	N/A	9,9.3	8,9	16,17	
RMMDQV	Identifiler® Plus					
		19,24		16,18		11,12
2		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
RNDH3E	Identifiler® Plus					
		19,24		16,18		11,12
2		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
RNX28L	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18	Not tested	11,12
2	Not tested	9,10	14	Not tested	14,16	18,23
	9,13	11,13	Not tested	13,17	12,14	Not tested
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5	Not tested	9,9.3	8,9	16,17	
RT8HEP	PowerPlex® ESX17, GlobalFiler™ Express					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
TCGWAN	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
TKDRCT	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5		9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

TNUWAN	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
TP8LFM		19,24		16,18		11,12
2		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
TUHGCJ	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
TUYX7C	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
TXGXLR	PowerPlex® ESX-17					
	11,18.3	19,24	11,11.3	16,18		
2			14		14,16	18,23
		11,13		13,17	12,14	
	29,31.2	11,15	X,Y		21,23	
		19,28.2	9,9.3		16,17	
TYQ3ZF	Identifiler® Direct, Identifiler					
		19,24		16,18		11,12
2		9,10	14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	N/A
	N/A		9,9.3	8,9	16,17	
TYUMP6	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

TZP49T	Identifiler® Plus					
	NA	19,24	NA	16,18	NA	11,12
	2	NA	9,10	14,14	NA	NA
		9,13	11,13	NA	13,17	12,14
		29,31.2	NA	X,Y	10,12	21,23
	NA	NA	9,9.3	8,9	16,17	
U3M77T	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
	2		9,10	14		14,16
		9,13	11,13		13,17	12,14
		29,31.2	11,15	X,Y	10,12	21,23
	5		9,9.3	8,9	16,17	
U3PTPT	Identifiler® Plus					
		19,24		16,18		11,12
	2		9,10	14,14		
		9,13	11,13		13,17	12,14
		29,31.2		X,Y	10,12	21,23
			9,9.3	8,9	16,17	
U9YWU9	Identifiler® Direct, Identifiler					
		19,24		16,18		11,12
	2		9,10	14		
		9,13	11,13		13,17	12,14
		29,31.2		X,Y	10,12	21,23
	N/A		9,9.3	8,9	16,17	N/A
UAAWTN	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
	2		9,10	14,14		14,16
		9,13	11,13		13,17	12,14
		29,31.2	11,15	X,Y	10,12	21,23
		19,28.2	9,9.3	8,9	16,17	
UB3M6U	Identifiler® Plus					
		19,24		16,18		11,12
	2		9,10	14		
		9,13	11,13		13,17	12,14
		29,31.2		X,Y	10,12	21,23
			9,9.3	8,9	16,17	
UB3PN8	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
	2		9,10	14,14		14,16
		9,13	11,13		13,17	12,14
		29,31.2	11,15	X,Y	10,12	21,23
		19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

UB4F2G	PowerPlex® 21					
	11,18.3	19,24		16,18		11,12
2	12,19	9,10	14,14			18,23
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
VFD6TP	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
VHX6VQ	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
		19,28.2	9,9.3	8,9	16,17	
VLGYXJ	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	
VTXKWN	PowerPlex® FUSION					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5		9,9.3	8,9	16,17	
VW2B6P	PowerPlex® Fusion, GlobalFiler™, Investigator® 24plex					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	
WJMTQR	Identifiler® Plus					
		19,24		16,18		11,12
2		9,10	14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	10,15
			9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

WK4UTT	Identifiler® Direct					
	-	19,24	-	16,18	-	11,12
2	-	9,10	14	-	-	-
	9,13	11,13	-	13,17	12,14	-
	29,31.2	-	X,Y	10,12	21,23	-
	-	-	9,9.3	8,9	16,17	
WQ8VTM	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
WX6PRL	PowerPlex® Fusion 5C					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
WY3ZK4	Identifiler®					
		19,24		16,18		11,12
2		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
X8BPZM	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
X96HV7	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
XAB3GK	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

XE7UPH	PowerPlex® Fusion					
		11,18.3	19,24	11,11.3	16,18	11,12
	2		9,10	14,14		14,16
		9,13	11,13		13,17	12,14
		29,31.2	11,15	X,Y	10,12	21,23
	5,5		9,9.3	8,9	16,17	
XJK68R	NGM SElect					
		11,18.3	19,24	11,11.3	16,18	
	2			14,14		14,16
			11,13		13,17	12,14
		29,31.2	11,15	X,Y		21,23
		19,28.2	9,9.3		16,17	
XWCWPB	Identifiler® Plus					
			19,24		16,18	11,12
	2		9,10	14,14		
		9,13	11,13		13,17	12,14
		29,31.2		X,Y	10,12	21,23
			9,9.3	8,9	16,17	
XXL7FM	PowerPlex® Fusion 6C					
		11,18.3	19,24	11,11.3	16,18	11,12
	2		9,10	14,14		14,16
		9,13	11,13		13,17	12,14
		29,31.2	11,15	X,Y	10,12	21,23
	5,5	19,28.2	9,9.3	8,9	16,17	
XZQUYJ	PowerPlex® Fusion					
		11,18.3	19,24	11,11.3	16,18	11,12
	2		9,10	14,14		14,16
		9,13	11,13		13,17	12,14
		29,31.2	11,15	X,Y	10,12	21,23
	5,5		9,9.3	8,9	16,17	
Y87R3W	PowerPlex® Fusion 6C					
		11,18.3	19,24	11,11.3	16,18	11,12
	2		9,10	14		14,16
		9,13	11,13		13,17	12,14
		29,31.2	11,15	X,Y	10,12	21,23
	5	19,28.2	9,9.3	8,9	16,17	
YDTDEP	Identifiler® Plus					
			19,24		16,18	11,12
	2		9,10	14		
		9,13	11,13		13,17	12,14
		29,31.2		X,Y	10,12	21,23
			9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

YEN3GX	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5	19,28.2	9,9.3	8,9	16,17	
YHLLFB	Identifiler® Direct					
		19,24		16,18		11,12
2		9,10	14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
YKDFHL	Identifiler®					
		19,24		16,18		11,12
2		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
YKR74B	Identifiler® Direct					
		19,24		16,18		11,12
2		9,10	14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	N/A
	N/A		9,9.3	8,9	16,17	
YMZCNQ	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
YTM6VJ	Investigator® 24plex					
	11,18.3	19,24	11,11.3	16,18		11,12
2		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
Z3U7UP	Identifiler® Direct					
	-	19,24	-	16,18	-	11,12
2		9,10	14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	

TABLE 1

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

Item 2 - STR Results

ZGMZ3A	Identifiler® Plus	19,24		16,18		11,12
2		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
ZL47Z6	GlobalFiler™	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
ZQVBUA	Identifiler®	19,24		16,18		11,12
2		9,10	14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
ZVRWMX	PowerPlex® Fusion 6C	19,24	11,11.3	16,18		11,12
2		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5	19,28.2	9,9.3	8,9	16,17	
ZW3Y8B	Identifiler® direct	19,24		16,18		11,12
2		9,10	14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	n/a
	n/a		9,9.3	8,9	16,17	

TABLE 1

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

Item 3 - STR Results

23MG6J	PowerPlex® Fusion 5C					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
2B26YK	PowerPlex® Fusion 6C					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
2DL8RC	PowerPlex® Fusion 6C					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
2G69NJ	GlobalFiler™					
	15,3,17,3	24,25	11,14	15,16	NT	10,11
3	NT	8,12	12,12	NT	14,15	21,25
	11,12	11,11	NT	17,18	12,14	NT
	28,31.2	11,15	X,Y	11,11	21,21	NT
	NT	19,22.2	6,8	8,11	17,17	
2KLEME	PowerPlex® Fusion					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
2TYK4H	PowerPlex® 16					
				15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18		
	28,31.2		X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
33FQB7	Identifiler® Plus, MiniFiler					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	

TABLE 1

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

Item 3 - STR Results

3C6HVC	PowerPlex® Fusion					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
3D4KPN	Identifiler® Plus					
	-	24,25	-	15,16	-	10,11
3		8,12	12	-	-	-
	11,12	11	-	17,18	12,14	-
	28,31.2	-	X,Y	11	21	-
	-	-	6,8	8,11	17	
3G27E6	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
3PFNER	GlobalFiler™					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
4DWTBC	GlobalFiler™					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
687KNX	PowerPlex® 16, GlobalFiler™					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12	19,22.2	6,8	8,11	17	
6AC7DH	PowerPlex® Fusion					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	

TABLE 1

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

Item 3 - STR Results

6ATE7J	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
6MYDBJ	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
6WPWQD	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
7FDUAG	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
7KBDCF	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
7MW6GQ	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12	19,22.2	6,8	8,11	17	
7XFJH8	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	

TABLE 1

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

Item 3 - STR Results

89TZQ6	PowerPlex® Fusion					
	15,3,17.3	24,25	11,14	15,16	NT	10,11
3	NT	8,12	12,12	NT	14,15	21,25
	11,12	11,11	NT	17,18	12,14	NT
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	NT	6,8	8,11	17,17	
8DNVPQ	PowerPlex® 16					
				15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18		
	28,31.2		X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
8EGNKA	GlobalFiler™					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
8HX4WM	GlobalFiler™					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
8MVMYL	GlobalFiler™					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
8NNHJ9	PowerPlex® 16					
				15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18		
	28,31.2		X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
8THFBK	PowerPlex® Fusion 6C					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	

TABLE 1

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

Item 3 - STR Results

8WDBRY	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
8XTDX8	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
94FH73	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
9AKAJ7	PowerPlex® ESX 16 Fast					
	15.3,17.3	24,25	11,14	15,16		
3			12		14,15	21,25
		11		17,18	12,14	
	28,31.2	11,15	X,Y		21	
			6,8		17	
9DN9Z7	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
9HXDKD	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
A93RT6	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	

TABLE 1

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

Item 3 - STR Results

ABVGF8	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
AD24TC	Investigator® 24plex					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
AE6Y99	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
AE7VJ4	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
AJ49P2	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
AMMALA	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
ARUVCR	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	

TABLE 1

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

Item 3 - STR Results

ATCMNW	GlobalFiler™					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
B2KWC2	Identifiler®					
	not tested	24,25	not tested	15,16	not tested	10,11
3	not tested	8,12	12,12	not tested	not tested	not tested
	11,12	11,11	not tested	17,18	12,14	not tested
	28,31.2	not tested	X,Y	11,11	21,21	not tested
	not tested	not tested	6,8	8,11	17,17	
BFLAQD	Identifiler®					
		24,25		15,16		10,11
3		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
BFX9J2	PowerPlex® FUSION					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
BMYG93	PowerPlex® Fusion 6C					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
BX2G7F	PowerPlex® Fusion					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
C4K9M9	PowerPlex® Fusion 5C					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	

TABLE 1

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

Item 3 - STR Results

CEMMRE	PowerPlex® FUSION					
	15.3,17.3	24,25	11,14	15,16		10,11
	3	8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
CJDYMB	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
	3	8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
CME3GJ	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
	3	8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
	19,22.2	6,8	8,11	17		
CVP4XD	Identifiler®, GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
	3	8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
	19,22.2	6,8	8,11	17,17		
D3LLMA	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
	3	8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
D6ECZF	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
	3	8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
	19,22.2	6,8	8,11	17		
D8KWMF	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
	3	8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
	19,22.2	6,8	8,11	17		

TABLE 1

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

Item 3 - STR Results

DB4UC7	GlobalFiler™					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
DBJDV4	PowerPlex® 16					
				15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18		
	28,31.2		X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
DBYEWK	Identifiler®					
		24,25		15,16		10,11
3		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
DJTKUR	GlobalFiler™					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
DJW8AK	PowerPlex® Fusion 5C					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
DKPXKY	PowerPlex® FUSION					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
DXQTB7	PowerPlex® Fusion 6C					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	

TABLE 1

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

Item 3 - STR Results

E2TW28	PowerPlex® Fusion 6C					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
E6AAMF	GlobalFiler™					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
EA3HP2	PowerPlex® Fusion					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
EC6JPY	PowerPlex® Fusion					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
EEUMH7	PowerPlex® FUSION - ESX					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
ELUZMF	PowerPlex® Fusion					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
EPW38B	Identifiler® Plus					
	-	24,25	-	15,16	-	10,11
3		8,12	12	-	-	-
	11,12	11	-	17,18	12,14	-
	28,31.2	-	X,Y	11	21	-
	-	-	6,8	8,11	17	

TABLE 1

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

Item 3 - STR Results

ETD977	PowerPlex® Fusion 6C					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
EYGCUJ	PowerPlex® Fusion 6C					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12	19,22.2	6,8	8,11	17	
F6LDTR	Identifiler® +					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
FAVU2F	PowerPlex® Fusion 6C					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12	19,22.2	6,8	8,11	17	
FBUPTY	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
FP8A7W	PowerPlex® FUSION					
	15,3,17,3	24,25	11,14	15,16	NOT TESTED	10,11
3	NOT TESTED	8,12	12,12	NOT TESTED	14,15	21,25
	11,12	11,11	NOT TESTED	17,18	12,14	NOT TESTED
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	NOT TESTED	6,8	8,11	17,17	
FWAEYG	Identifiler®					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	

TABLE 1

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

Item 3 - STR Results

GC3972	GlobalFiler™					
	15,3,17,3	24,25	11,14	15,16	-	10,11
3	-	8,12	12,12	-	14,15	21,25
	11,12	11,11	-	17,18	12,14	-
	28,31.2	11,15	X,Y	11,11	21,21	-
	-	19,22.2	6,8	8,11	17,17	
GCHKTC	GlobalFiler™					
	15,3,17,3	24,25	11,14	15,16		10,11
3	-	8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
GL3YPM	GlobalFiler™					
	15,3,17,3	24,25	11,14	15,16		10,11
3	-	8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
GLQ683	GlobalFiler™					
	15,3,17,3	24,25	11,14	15,16		10,11
3	-	8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
GQYPVY	PowerPlex® Fusion					
	15,3,17,3	24,25	11,14	15,16		10,11
3	-	8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
GTREH2	Identifiler® Plus					
		24,25		15,16		10,11
3	-	8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
H7AJ89	PowerPlex® FUSION					
	15,3,17,3	24,25	11,14	15,16		10,11
3	-	8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	

TABLE 1

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

Item 3 - STR Results

H9F4V9	PowerPlex® Fusion 6C					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
HFDW43	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
HG8PWZ	PowerPlex® Fusion 6C, Investigator® 24plex					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
HUWNN4	PowerPlex® Fusion					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
HUXC83	Identifiler® Plus					
	NA	24,25	NA	15,16	NA	10,11
3	NA	8,12	12,12	NA	NA	NA
	11,12	11,11	NA	17,18	12,14	NA
	28,31.2	NA	X,Y	11,11	21,21	NA
	NA	NA	6,8	8,11	17,17	
HZ26GX	PowerPlex® Fusion					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
JBLP9	PowerPlex® Fusion 6C					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	

TABLE 1

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

Item 3 - STR Results

JDL3Z8	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
JEW7AP	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
JFB9K4	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
JLHUC8	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
KHWEDY	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
KJ7MHD	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
KLUXFX	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	

TABLE 1

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

Item 3 - STR Results

KRXZFR	PowerPlex® Fusion					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
LHTAEG	PowerPlex® Fusion 5C					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
LHTC4K	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
LJ4ADW	Identifiler®					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
LKVACT	PowerPlex® 16 ESI FAST, Fusion 6C					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
LUPEN3	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
LWB6RR	PowerPlex® FUSION					
	15,3,17,3	24,25	11,14	15,16	NT	10,11
3	NT	8,12	12,12	NT	14,15	21,25
	11,12	11,11	NT	17,18	12,14	NT
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	NT	6,8	8,11	17,17	

TABLE 1

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

Item 3 - STR Results

M64PF6	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
M6JA2N	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
M7VT3K	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
ME6D83	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
MFKCN7	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	19,22.2	6,8	8,11	17,17	
MW6694	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	
NB3WAY	Identifiler® Plus, MiniFiler					
		24,25		15,16		10,11
3		8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
			6,8	8,11	17	

TABLE 1

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

Item 3 - STR Results

NH32GH	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
	3	8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
	19,22.2	6,8	8,11	17		
NPJPZQ	Identifiler® Plus					
		24,25		15,16		10,11
	3	8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
		6,8	8,11	17,17		
NT3QYJ	Identifiler® Plus					
		24,25		15,16		10,11
	3	8,12	12			
	11,12	11		17,18	12,14	
	28,31.2		X,Y	11	21	
		6,8	8,11	17		
NW28AR	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
	3	8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	6,8	8,11	17,17		
NW2ZB7	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
	3	8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12	6,8	8,11	17,17		
NZ29H2	Identifiler® Plus					
		24,25		15,16		10,11
	3	8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
		6,8	8,11	17,17		
P6CNGR	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
	3	8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
	19,22.2	6,8	8,11	17,17		

TABLE 1

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

Item 3 - STR Results

P6DET2	PowerPlex® Fusion					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
PN4R2Y	Identifiler® Plus, MiniFiler					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
PYN4DC	PowerPlex® Fusion					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
Q7KBDW	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	
QFRXKC	PowerPlex® 16, GlobalFiler™					
	15,3,17,3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12	19,22.2	6,8	8,11	17	
QPFPDV	Identifiler® Plus					
	N/A	24,25	N/A	15,16	N/A	10,11
3		8,12	12,12	N/A	N/A	N/A
	11,12	11,11	N/A	17,18	12,14	N/A
	28,31.2	N/A	X,Y	11,11	21,21	N/A
	N/A	N/A	6,8	8,11	17,17	
RMMDQV	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	

TABLE 1

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

Item 3 - STR Results

RNDH3E	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
		11,12	11,11	17,18	12,14	
		28,31.2	X,Y	11,11	21,21	
			6,8	8,11	17,17	
RNX28L	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16	Not tested	10,11
3		8,12	12	Not tested	14,15	21,25
		11,12	11	Not tested	17,18	12,14
		28,31.2	11,15	X,Y	11	21
		7,12	Not tested	6,8	8,11	17
RT8HEP	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,[24],25
		11,12	11,11	17,18	12,14	
		28,31.2	11,15	X,Y	11,11	21,21
			19,22.2	6,8	8,11	17,17
TCGWAN	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
		11,12	11,11	17,18	12,14	
		28,31.2	11,15	X,Y	11,11	21,21
			19,22.2	6,8	8,11	17,17
TKDRCT	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
		11,12	11	17,18	12,14	
		28,31.2	11,15	X,Y	11	21
		7,12		6,8	8,11	17
TNUWAN	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
		11,12	11,11	17,18	12,14	
		28,31.2	11,15	X,Y	11,11	21,21
		7,12	19,22.2	6,8	8,11	17,17
TP8LFM	Identifiler®					
		24,25		15,16		10,11
3		8,12	12,12			
		11,12	11,11	17,18	12,14	
		28,31.2	X,Y	11,11	21,21	
			6,8	8,11	17,17	

TABLE 1

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

Item 3 - STR Results

TUHGCJ	PowerPlex® Fusion					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	9,10
	7,12		6,8	8,11	17,17	
TUYX7C	GlobalFiler™					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	
		19,22.2	6,8	8,11	17	
TXGXLR	PowerPlex® ESX-17					
	15,3,17.3	24,25	11,14	15,16		
3			12		14,15	21,25
		11		17,18	12,14	
	28,31.2	11,15	X,Y		21	
		19,22.2	6,8		17	
TYUMP6	GlobalFiler™					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
	11,12	11,11		17,18	12,14	
	28,31.2	11,15	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
TZP49T	Identifiler® Plus					
	NA	24,25	NA	15,16	NA	10,11
3	NA	8,12	12,12	NA	NA	NA
	11,12	11,11	NA	17,18	12,14	NA
	28,31.2	NA	X,Y	11,11	21,21	NA
	NA	NA	6,8	8,11	17,17	
U3M77T	PowerPlex® Fusion					
	15,3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
	11,12	11		17,18	12,14	
	28,31.2	11,15	X,Y	11	21	9,10
	7,12		6,8	8,11	17	
U3PTPT	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
	11,12	11,11		17,18	12,14	
	28,31.2		X,Y	11,11	21,21	
			6,8	8,11	17,17	

TABLE 1

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

Item 3 - STR Results

UAAWTN	Identifiler®					
		24,25		15,16		10,11
3		8,12	12,12			
		11,12	11,11	17,18	12,14	
		28,31.2	X,Y	11,11	21,21	
			6,8	8,11	17,17	
UB3M6U	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12			
		11,12	11	17,18	12,14	
		28,31.2	X,Y	11	21	
			6,8	8,11	17	
UB3PN8	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
		11,12	11,11	17,18	12,14	
		28,31.2	X,Y	11,11	21,21	
		19,22.2	6,8	8,11	17,17	
UB4F2G	PowerPlex® 21					
	15.3,17.3	24,25		15,16		10,11
3		8,12	12,12		14,15	21,25
		11,12	11,11	17,18	12,14	
		28,31.2	X,Y	11,11	21,21	9,10
		7,12	6,8	8,11	17,17	
VFD6TP	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
		11,12	11,11	17,18	12,14	
		28,31.2	X,Y	11,11	21,21	9,10
		7,12	6,8	8,11	17,17	
VHX6VQ	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
		11,12	11	17,18	12,14	
		28,31.2	X,Y	11	21	
		19,22.2	6,8	8,11	17	
VLGYXJ	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
		11,12	11,11	17,18	12,14	
		28,31.2	X,Y	11,11	21,21	9,10
		7,12	19,22.2	6,8	8,11	17,17

TABLE 1

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

Item 3 - STR Results

VTXKWN	PowerPlex® FUSION					
		15,3,17.3	24,25	11,14	15,16	10,11
	3		8,12	12		14,15
		11,12	11		17,18	12,14
		28,31.2	11,15	X,Y	11	21
		7,12		6,8	8,11	17
VW2B6P	Identifiler® Plus, MiniFiler					
			24,25		15,16	10,11
	3		8,12	12,12		
		11,12	11,11		17,18	12,14
		28,31.2		X,Y	11,11	21,21
				6,8	8,11	17,17
WJMTQR	Identifiler® Plus					
			24,25		15,16	10,11
	3		8,12	12		
		11,12	11		17,18	12,14
		28,31.2		X,Y	11	21
				6,8	8,11	17
WK4UTT	Identifiler® Plus					
		-	24,25	-	15,16	-
	3		8,12	12	-	-
		11,12	11	-	17,18	12,14
		28,31.2	-	X,Y	11	21
		-	-	6,8	8,11	17
WQ8VTM	GlobalFiler™					
		15,3,17.3	24,25	11,14	15,16	10,11
	3		8,12	12,12		14,15
		11,12	11,11		17,18	12,14
		28,31.2	11,15	X,Y	11,11	21,21
			19,22.2	6,8	8,11	17,17
WX6PRL	PowerPlex® Fusion 6C					
		15,3,17.3	24,25	11,14	15,16	10,11
	3		8,12	12,12		14,15
		11,12	11,11		17,18	12,14
		28,31.2	11,15	X,Y	11,11	21,21
		7,12	19,22.2	6,8	8,11	17,17
WY3ZK4	Identifiler®					
			24,25		15,16	10,11
	3		8,12	12,12		
		11,12	11,11		17,18	12,14
		28,31.2		X,Y	11,11	21,21
				6,8	8,11	17,17

TABLE 1

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

Item 3 - STR Results

X8BPZM	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
		11,12	11,11	17,18	12,14	
		28,31.2	X,Y	11,11	21,21	
			6,8	8,11	17,17	
X96HV7	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
		11,12	11	17,18	12,14	
		28,31.2	X,Y	11	21	
		19,22.2	6,8	8,11	17	
XAB3GK	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12		14,15	21,25
		11,12	11	17,18	12,14	
		28,31.2	X,Y	11	21	
		19,22.2	6,8	8,11	17	
XE7UPH	PowerPlex® Fusion					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
		11,12	11,11	17,18	12,14	
		28,31.2	X,Y	11,11	21,21	9,10
		7,12	6,8	8,11	17,17	
XJK68R	NGM SElect					
	15.3,17.3	24,25	11,14	15,16		
3			12,12		14,15	21,25
		11,11		17,18	12,14	
		28,31.2	X,Y		21,21	
		19,22.2	6,8		17,17	
XWCWPB	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
		11,12	11,11	17,18	12,14	
		28,31.2	X,Y	11,11	21,21	
			6,8	8,11	17,17	
XXL7FM	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16		10,11
3		8,12	12,12		14,15	21,25
		11,12	11,11	17,18	12,14	
		28,31.2	X,Y	11,11	21,21	9,10
		7,12	19,22.2	6,8	8,11	17,17

TABLE 1

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

Item 3 - STR Results

XZQUYJ	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12,12			
		11,12	11,11	17,18	12,14	
		28,31.2	X,Y	11,11	21,21	
			6,8	8,11	17,17	
Y87R3W	PowerPlex® Fusion 6C					
		15.3,17.3	24,25	11,14	15,16	10,11
3		8,12	12		14,15	21,25
		11,12	11	17,18	12,14	
		28,31.2	11,15	X,Y	11	21
		7,12	19,22.2	6,8	8,11	17
YDTDEP	Identifiler® Plus					
		24,25		15,16		10,11
3		8,12	12			
		11,12	11	17,18	12,14	
		28,31.2	X,Y	11	21	
			6,8	8,11	17	
YEN3GX	PowerPlex® Fusion 6C					
		15.3,17.3	24,25	11,14	15,16	10,11
3		8,12	12		14,15	21,25
		11,12	11	17,18	12,14	
		28,31.2	11,15	X,Y	11	21
		7,12	19,22.2	6,8	8,11	17
YKDFHL	Identifiler® ID+					
		24,25		15,16		10,11
3		8,12	12,12			
		11,12	11,11	17,18	12,14	
		28,31.2	X,Y	11,11	21,21	
			6,8	8,11	17,17	
YMZCNQ	PowerPlex® Fusion					
		15.3,17.3	24,25	11,14	15,16	10,11
3		8,12	12,12		14,15	21,25
		11,12	11,11	17,18	12,14	
		28,31.2	11,15	X,Y	11,11	21,21
		7,12	6,8	8,11	17,17	
YTM6VJ	GlobalFiler™					
		15.3,17.3	24,25	11,14	15,16	10,11
3		8,12	12,12		14,15	21,25
		11,12	11,11	17,18	12,14	
		28,31.2	11,15	X,Y	11,11	21,21
			19,22.2	6,8	8,11	17,17

TABLE 1

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

Item 3 - STR Results

Z3U7UP	Identifiler® Plus					
	-	24,25	-	15,16	-	10,11
3	-	8,12	12	-	-	-
	11,12	11	-	17,18	12,14	-
	28,31.2	-	X,Y	11	21	-
	-	-	6,8	8,11	17	
ZGMZ3A	Identifiler® Plus					
	-	24,25	-	15,16	-	10,11
3	-	8,12	12,12	-	-	-
	11,12	11,11	-	17,18	12,14	-
	28,31.2	-	X,Y	11,11	21,21	-
	-	-	6,8	8,11	17,17	
ZL47Z6	GlobalFiler™					
	15.3,17.3	24,25	11,14	15,16	-	10,11
3	-	8,12	12	-	14,15	21,25
	11,12	11	-	17,18	12,14	-
	28,31.2	11,15	X,Y	11	21	-
	-	19,22.2	6,8	8,11	17	
ZVRWMX	PowerPlex® Fusion 6C					
	15.3,17.3	24,25	11,14	15,16	-	10,11
3	-	8,12	12	-	14,15	21,25
	11,12	11	-	17,18	12,14	-
	28,31.2	11,15	X,Y	11	21	9,10
	7,12	19,22.2	6,8	8,11	17	

TABLE 1

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

Item 4 - STR Results

C4K9M9	PowerPlex® Fusion 5C					
	11,14,15,18.3	17,19,24	10,11,11.3	15,16,18		11,12,13
4		9,10,11,13	14		12,14,16	15,18,22,23
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2	11,15,16	X,Y	10,11,12	21,23	8,10,15
	5,8		6,9,9.3	8,9,11	16,17,18	

TABLE 1

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

Item 4e - STR Results

23MG6J	PowerPlex® Fusion 5C					
	11,14,15	17,19,24	10,11	15,16,18		11,12,13
4e		9,11,13	14,14		12,12	15,18,22,23
	9,11,13	11,11		13,17,19	12,14,15	
	28,29,31,31.2	11,15,16	X,Y	10,11,12	21,23	8,10
	5,8		6,9,9.3	8,11	16,17,18	
2B26YK	PowerPlex® Fusion 6C					
	14,15	17,[19]	10,11	15,16		11,[12],13
4e		11,13	14,14		12,12	15,22,[23]
	[9],11	11,11		13,[17],19	14,15	
	28,31	15,16	X,X	[10],11,12	21,21	8,10
	5,8	17,[19],25.2	6,9.3	8,11	16,[17],18	
2DL8RC	PowerPlex® Fusion 6C					
	[11],14,15,[18.3]	17,[19],[24]	10,11,[11.3]	15,16,[18]		11,13
4e		[9],[10],11,13	14		12,[14],[16]	15,[18],22,[23]
	[9],11,[13]	11,[13]		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	[11],15,16	X,[Y]	[10],11,12	21,[23]	8,10,[15]
	5,8	17,[19],25.2	6,[9],9.3	8,[9],11	16,18	
2G69NJ	GlobalFiler™					
	[11],14,15,[18.3]	17,[19],[Q]	10,11,[Q]	[14],15,16,[18],[Q]	NT	11,[12],13,[Q]
4e	NT	[9],[10],11,13	14,14	NT	12,12,[14],[16]	15,[18],22,[23]
	[9],11,11,[13]	11,[13],[Q]	NT	[12],13,[17],19,[Q]	[12],14,15,[Q]	NT
	28,[29],31,[31.2]	[11],15,16,[Q]	X,X,[Y]	[10],11,12,[Q]	[20],21,21,[Q]	NT
	NT	17,[24.2],25.2,[28.2],[Q]	6,[9],9.3,[Q]	8,11,[Q]	16,[17],18,[Q]	
2KLEME	PowerPlex® Fusion					
	11,14,15,18.3	17,19,24	10,11,11.3	15,16,18		11,12,13
4e		9,10,11,13	14		12,14,16	15,18,22,23
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2	11,15,16	X,Y	10,11,12	21,23	8,10,15
	5,8		6,9,9.3	8,9,11	16,17,18	
2TYK4H	PowerPlex® Fusion 6C					
	14,15,18.3	17,17	10,11	15,16		11,13
4e		9,10,11,13	14,14		12,12	15,18,22
	9,11,13	11,11		13,17,19	14,15	
	28,29,31,31.2	11,15,16	X,Y	11,12	21,21	8,10
	5,8	17,19,25.2	6,9.3	8,11	16,18	
33FQB7	Identifiler® Plus					
		17,17		15,16		11,13
4e		11,13	14,14			
	11,11	11,11		13,19	14,15	
	28,31		X,X	11,12	21,21	
			6,9.3	8,11	16,18	

TABLE 1

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

Item 4e - STR Results

3C6HVC	PowerPlex® Fusion					
	[11],14,15,[18.3]	17,17	10,11,[11.3]	15,16,[18]		11,[12],13
4e		[9],[10],11,13	14,14		12,12,[14]	15,[18],22,[23]
	[9],11,11,[13]	11,11,[13]		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	[11],15,16	X,X,[Y]	[10],11,12	21,21,[23]	8,10
	5,8		6,[9],9.3	8,[9],11	16,18	
3D4KPN	Identifiler® Plus					
	-	17	-	15,16	-	11,13
4e	-	11,13	14	-	-	-
	11	11	-	13,19	14,15	-
	28,31	-	X,X	11,12	21	-
	-	-	6,9.3	8,11	16,18	
3G27E6	Identifiler® Plus					
		17,19		15,16,18		11,12,13
4e		11,13	14			
	11	11		13,19	14,15	
	28,29,31		X,Y	11,12	21	
			6,9,9.3	8,11	16,17,18	
3PFNER	GlobalFiler™					
	11,14,15,18.3	17,19	10,11	15,16,18		11,12,13
4e		11,13	14		12,14	15,22
	11,13	11		13,17,19	12,14,15	
	28,31	15,16	X	11,12	21	
		17,25.2,28.2	6,9.3	8,11	16,18	
4DWTBC	Identifiler® Plus					
		17,19		15,16		11,12,13
4e		9,11,13	14,14			
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31		X,Y	11,12	21,23	
			6,9,9.3	8,11	16,17,18	
687KNX	GlobalFiler™					
	[11],14,15	17,[19],[24]	10,11,[11.3]	15,16		11,[12],13
4e		[10],11,13	14		12,[16]	15,22
	[9],11,[13]	11		13,[17],19	[12],14,15	
	28,31	[11],15,16	X,[Y]	[10],11,12	21,[23]	
		17,[19],25.2,[28.2]	6,[9],9.3	8,11	16,[17],18	
6AC7DH	PowerPlex® Fusion					
	14,15	17,19,24	10,11	15,16		11,12,13
4e		9,11,13	14		12,14	15,18,22,23
	11	11,13		13,17,19	14,15	
	28,29,31	15,16	X,Y	10,11,12	21,23	8,10
	5,8		6,9,9.3	8,11	16,17,18	

TABLE 1

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

Item 4e - STR Results

6ATE7J	Identifiler® Plus					
		16,17		14,15,16		10,11,12,13
4e		10,11,12,13	13,14			
	10,11	10,11		12,13,18,19	12,13,14,15	
	27,28,30,31,31.2		X	10,11,12	20,21	
			6,9,9.3	8,11	15,16,17,18	
6MYDBJ	Identifiler® Plus					
		17		15,16		11,13
4e		11,13	14			
	11	11		13,19	14,15	
	28,31		X	11,12	21	
			6,9.3	8,11	16,18	
6WPWQD	GlobalFiler™					
	11,14,15,18.3	17,19,24	10,11,11.3	15,16,18		11,12,13
4e		9,10,11,13	14,14		12,14,16	15,18,22,23
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2	11,15,16	X,Y	11,12	21,23	
		17,19,25.2,28.2	6,9,9.3	8,9,11	16,17,18	
7FDUAG	Identifiler® Plus					
		17,19,24		15,16		11,12,13
4e		9,10,11,13	13,14			
	9,11,13	10,11,13		12,13,18,19	12,13,14,15	
	28,29,31,31.2		X,Y	10,11,12	20,21,23	
			6,9,9.3	8,9,11	15,16,17,18	
7KBDCF	Identifiler® Plus					
		17,17		15,16		11,13
4e		11,13	14,14			
	11,11	11,11		13,19	14,15	
	28,31		X,X	11,12	21,21	
			6,9.3	8,11	16,18	
7MW6GQ	PowerPlex® Fusion					
	[11],14,15,[18.3]	17,[19,24]	10,11	15,16,[18]		11,[12],13
4e		11,13	14		12,[14,16]	15,[18],22
	[9],11,[13]	11		13,19	14,15	
	28,[29],31	[11],15,16	X,[Y]	11,12	21	8,10
	5,8	17,[19],25.2,[28.2]	6,[9],9.3	8,11	16,[17],18	
7XFJH8	PowerPlex® Fusion					
	[11],14,15	17,17,[19],[24]	10,11,[11.3]	15,16,[18]		11,[12],13
4e		[9],11,13	14,14		12,12,[16]	15,[18],22,[23]
	[9],11,11	11,11,[13]		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	[11],15,16	X,X,[Y]	11,12	21,21,[23]	8,10,[15]
	5,8		6,[9],9.3	8,[9],11	16,[17],18	

TABLE 1

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

Item 4e - STR Results

89TZQ6	PowerPlex® Fusion					
	14,15	17,17,[19],[24]	10,11	15,16,[18]	NT	11,[12],13
4e	NT	[9],[10],11,13	14,14	NT	12,12,[14],[16]	15,[18],22
	[9],11,11,[13]	11,11,[13]	NT	13,[17],19	[12],14,15	NT
	28,31,[31.2]	15,16	X,X,[Y]	[10],11,12	21,21,[23]	8,10
	5,8	NT	6,[9],9.3	8,11	16,[17],18	
8DNVPQ	PowerPlex® 16					
				15,16		11,12,13
4e		9,10,11,13	14,14			
	9,11,13	11,13		13,17,19		
	28,29,31		X,X	11,12	21,21	8,10
	5,8		6,9,9.3	8,11	16,17,18	
8EGNKA	GlobalFiler™					
	[11],14,15	17,17	10,11,[11.3]	15,16,[18]		11,[12],13
4e		11,13	14,14		12,12,[14],[16]	15,[18],22
	[9],11,11	11,11		13,19	14,15	
	28,[29],31,[31.2]	15,16	X,X,[Y]	11,12	21,21,[23]	
		17,[19],25.2	6,9.3	8,11	16,18	
8HX4WM	GlobalFiler™					
	[11],14,15,[18.3]	17,17,[19,24]	10,11,[11.3]	15,16,[18]		11,[12],13
4e		[9,10],11,13	14,14		12,12,[14],[16]	15,[18],22
	[9],11,11,[13]	11,11,[13]		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	[11],15,16	X,X,[X,Y]	[10],11,12	21,21,[23]	
		17,25.2,[28.2]	6,[9],9.3	8,[9],11	16,18	
8MVMYL	GlobalFiler™					
	[11],14,15,[18.3]	17,[24]	10,11,[11.3]	15,16,18		11,12,13
4e		[9],10,11,13	14		12,[14],[16]	15,22
	[9],11,[13]	11,[13]		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	[11],15,16	X,Y	11,12	21,[23]	
		17,[19],25.2,[28.2]	6,9.3	8,[9],11	16,18	
8NNHJ9	PowerPlex® 16					
				15,16		11,12,13
4e		9,10,11,13	14,14			
	9,11,13	11,13		13,17,19		
	28,29,31		X,X	10,11,12	21,23	8,10,15
	5,8		6,9,9.3	8,9,11	16,17,18	
8THFBK	PowerPlex® Fusion 6C					
	[11],14,15,[18.3]	17,[19],[24]	10,11	15,16,[18]		11,13
4e		[9],11,13	14		12,[14],[16]	15,[18],22,[23]
	[9],11,[13]	11,[13]		13,[17],19	14,15	
	28,[29],31,[31.2]	[11],15,16	X,[Y]	11,12	21,[23]	8,10
	5,8	17,25.2,[28.2]	6,[9],9.3	8,[9],11	16,18	

TABLE 1

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

Item 4e - STR Results

8WDBRY	Identifiler® Plus	17,19,24		15,16,18		11,12,13
4e		11,13	13,14			
	9,10,11	11,13		13,18,19	12,13,14,15	
	28,29,31,31.2		X,Y	10,11,12	21,23	
			6,9.3	8,11	16,17,18	
8XTDX8	PowerPlex® Fusion	17,19,24	10,11,11.3	15,16,18		11,12,13
4e	11,14,15,18.3	9,10,11,13	14		12,14,16	15,18,22,23
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2	11,15,16	X,Y	10,11,12	21,23	8,10,15
	5,8		6,9,9.3	8,9,11	16,17,18	
94FH73	Identifiler® Plus	16,17		14,15,16,18		11,12,13
4e		10,11,13	13,14			
	10,11	10,11		13,19	12,14,15	
	28,29,31,31.2		X,Y	10,11,12	20,21	
			6,9,9.3	8,11	16,17,18	
9AKAJ7	PowerPlex® ESX 16 Fast	17	10,11	15,16		
4e	14,15		14		12,[14],[16]	15,[18],22,[23]
		11,[13]		13,[17],19	14,15	
	28,31	[11],15,16	X		21	
			6,[9],9.3		16,18	
9DN9Z7	GlobalFiler™	17,17	10,11	15,16		11,[12],13
4e	14,15	11,13	14,14		12,[14]	15,22
	11,11	11,11		13,19	14,15	
	28,31	15,16	X,Y	11,12	21,21	
		17,25.2	6,9.3	8,11	16,18	
9HXDKD	GlobalFiler™	17,17,[19],[24]	10,11,[11.3]	15,16		11,13
4e	[11],14,15,[18.3]	[9],[10],11,13	14,14		12,12,[14],[16]	15,[18],22,[23]
	[9],11,11,[13]	11,11,[13]		13,[17],19	14,15	
	28,[29],31,[31.2]	[11],15,16	X,X,[Y]	11,12	21,21,[23]	
		17,[19],25.2,[28.2]	6,[9],9.3	8,11	16,18	
A93RT6	PowerPlex® Fusion	17,19,24	10,11,11.3	15,16,18		11,12,13
4e	11,14,15,18.3	9,10,11,13	14		12,14,16	15,18,22,23
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2	11,15,16	X,Y	10,11,12	21,23	8,10,15
	5,8		6,9,9.3	8,9,11	16,17,18	

TABLE 1

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

Item 4e - STR Results

ABVGF8	Identifiler® Plus	17,19,24		15,16,18		11,12,13
4e		10,11,13	14,14			
		9,11,13	11,13	13,17,19	12,14,15	
		28,29,31	X,X	10,11,12	21,23	
			6,9,9.3	8,9,11	16,17,18	
AD24TC	Investigator® 24plex	17,19,24	10,11,11.3	15,16,18		11,12,13
4e		9,11,13	14,14		12,14,16	15,18,22,23
		9,11,13	11,13	13,17,19	12,14,15	
		28,29,31,31.2	X,Y	10,11,12	21,23	
		17,19,25.2,28.2	6,9,9.3	8,9,11	16,17,18	
AE6Y99	GlobalFiler™	17,[19],[24]	10,11,[11.3]	15,16,[18]		11,[12],13
4e		[9],11,13	14		12,[14],[16]	15,[18],22,[23]
		11,[13]	11,[13]	13,[17],19	[12],14,15	
		28,[29],31,[31.2]	X,[Y]	11,12	21,[23]	
		17,[19],25.2,[28.2]	6,[9],9.3	8,[9],11	16,18	
AE7VJ4	PowerPlex® Fusion	17,[24]	10,11,[11.3]	15,16,[18]		11,[12],13
4e		[9],[10],11,13	14		12,[14],[16]	15,[18],22,[23]
		[9],11,[13]	11,[13]	13,[17],19	[12],14,15	
		28,[29],31,[31.2]	X,[Y]	[10],11,12	21,[23]	8,10,[15]
		5,8	6,[9],9.3	8,11	16,[17],18	
AJ49P2	GlobalFiler™	17,17	10,11	15,16		11,13
4e		11,13	14,14		12,12	15,22
		11,11	11,11	13,19	14,15	
		28,31	X,X	11,12	21,21	
		17,25.2	6,9.3	8,11	16,18	
AMMALA	GlobalFiler™	17,[24]	10,11	15,16		11,[12],13
4e		11,13	14		12,[14,16]	15,22
		[9],11	11	13,19	[12],14,15	
		28,[29],31	X	11,12	21	
		17,25.2	6,9.3	8,11	16,18	
ARUVCR	GlobalFiler™	17,[24]	10,11,[11.3]	15,16,[18]		11,[12],13
4e		[9],11,13	14		12,[14]	15,[18],22
		[9],11	11	13,19	[12],14,15	
		28,31,[31.2]	X,[Y]	11,12	21,[23]	
		17,[19],25.2	6,[9],9.3	8,[9],11	16,18	

TABLE 1

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

Item 4e - STR Results

ATCMNW	GlobalFiler™					
	[11],14,15	17,[19]	10,11,[11.3]	15,16,[18]		11,[12],13
4e		11,13	14		12,[14],[16]	15,[18],22
	11	11		13,[17],19	14,15	
	28,31	[11],15,16	X,[Y]	11,12	21,[23]	
		17,[19],25.2	6,9.3	8,11	16,18	
B2KWC2	Identifiler®					
	not tested	17,[19],[24]	not tested	15,16,[18]	not tested	11,[12],13
4e	not tested	[9],[10],11,13	14	not tested	not tested	not tested
	[9],11,[13]	11,[13]	not tested	13,[17],19	[12],14,15	not tested
	28,[29],31,[31.2]	not tested	X,[Y]	[10],11,12	21,[23]	not tested
	not tested	not tested	6,[9],9.3	8,[9],11	16,[17],18	
BFLAQD	Identifiler®					
		17,[19],24]		15,16,[18]		11,[12],13
4e		[9,10],11,13	14			
	[9],11,[13]	11,[13]		13,19	[12],14,15	
	28,[29],31		X,[Y]	11,12	21,[23]	
			6,[9],9.3	8,[9],11	16,[17],18	
BFX9J2	PowerPlex® FUSION					
	[11],14,15	17,17,[24]	10,11	15,16,[18]		11,[12],13
4e		[9],11,13	14,14		12,12	15,[18],22,[23]
	[9],11,11	11,11,[13]		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	[11],15,16	X,X,[Y]	[10],11,12	21,21,[23]	8,10
	5,8		6,[9],9.3	8,11	16,[17],18	
BMYG93	PowerPlex® Fusion 6C					
	[11],14,15	17,[19]	10,11,[11.3]	15,16		11,13
4e		[9],11,13	14		12	15,22
	[9],11	11		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	[11],15,16	X,[Y]	11,12	21	8,10,[15]
	5,8	17,25.2,[28.2]	6,[9],9.3	8,[9],11	16,18	
BX2G7F	PowerPlex® Fusion					
	[11],14,15,[18.3]	17,17,[19],24]	10,11,[11.3]	15,16,[18]		11,12,13
4e		[9,10],11,13	14,14		12,12,[14]	15,22,[23]
	[9],11,11	11,11		13,19	[12],14,15	
	28,[29],31,[31.2]	15,16	X,X,[Y]	11,12	21,21	8,10,[15]
	5,8		6,9.3	8,11	16,[17],18	
CEMMRE	PowerPlex® FUSION					
	14,15	17,17,[19],[24]	10,11,[11.3]	15,16,[18]		11,13
4e		[9],[10],11,13	14,14		12,12	15,22,[23]
	11,11	11,11		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	15,16	X,X,[Y]	11,12	21,21	8,10
	5,8		6,9.3	8,11	16,[17],18	

TABLE 1

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

Item 4e - STR Results

CJDYMB	PowerPlex® Fusion					
	[11],14,15	17,[24]	10,11,[11.3]	15,16		11,[12],13
	4e	[10],11,13	14		12	15,[18],22,[23]
	11	11,[13]		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	15,16	X,[Y]	[10],11,12	21	8,10
	5,8		6,[9],9.3	8,11	16,[17],18	
CME3GJ	GlobalFiler™					
	11,14,15,18.3	17,19,24	10,11,11.3	15,16,18		11,12,13
	4e	9,11,13	14		12,14,16	15,18,22
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2	11,15,16	X,Y	11,12	21,23	
	17,19,25.2,28.2	6,9,9.3	8,9,11	16,18		
CVP4XD	Identifiler®, GlobalFiler™					
	14,15	17,24	10,11	15,16		11,12,13
	4e	10,11,13	14,14		12,16	15,22
	11,11	11,11		13,19	14,15	
	28,31	15,16	X,X	11,12	21,21	
	17,25.2	6,9.3	8,11	16,18		
D3LLMA	PowerPlex® Fusion					
	11,14,15,18.3	17,19	10,11,11.3	15,16,18		11,12,13
	4e	9,10,11,13	14		12,14,16	15,18,22,23
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2	11,15,16	X,Y	10,11,12	21,23	8,10,15
	5,8		6,9,9.3	8,9,11	16,17,18	
D6ECZF	GlobalFiler™					
	11,14,15,18.3	17,19,24	10,11,11.3	15,16,18		11,12,13
	4e	9,10,11,13	14		12,14,16	15,18,22
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2	11,15,16	X,Y	11,12	21,23	
	17,19,25.2,28.2	6,9,9.3	8,9,11	16,18		
D8KWMF	GlobalFiler™					
	14,15,18.3	17	10,11	15,16		11,13
	4e	11,13	14		12,16	15,22
	11,13	11		13,19	14,15	
	28,31	11,15,16	X	11,12	21	
	17,25.2	6,9.3	8,11	16,18		
DB4UC7	PowerPlex® 16					
				15,16,18		11,12,13
	4e	9,10,11,13	14,14			
	9,11,13	11,11		13,17,19		
	28,29,31		X,Y	10,11,12	21,23	8,10
	5,8		6,9,9.3	8,9,11	16,17,18	

TABLE 1

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

Item 4e - STR Results

DBJDV4	PowerPlex® Fusion					
	14,15	17,19	10,11,11.3	15,16,18		11,12,13
4e		9,11,13	14,14		12,16	15,18,22
	9,11	11,11		13,19	12,14,15	
	28,31	15,16	X,Y	10,11,12	21,23	8,10
	5,8		6,9,9.3	8,11	16,17,18	
DBYEWK	Identifiler®					
		17		15,16		11,12,13
4e		9,10,11,13	14			
	11	11		13,17,19	14,15	
	28,29,31,31.2		X,Y	11,12	21,23	
			6,9.3	8,11	16,17,18	
DJTKUR	GlobalFiler™					
	(11),14,15,(18.3)	17,(19,24)	10,11,(11.3)	15,16,(18)		11,(12),13
4e		(9,10),11,13	14		12,(14,16)	15,(18),22
	(9),11,(13)	11,(13)		13,(17),19	(12),14,15	
	28,(29),31,(31.2)	(11),15,16	X,(Y)	(10),11,12	21,(23)	
		17,(19),25.2,(28.2)	6,(9),9.3	8,11	16,(17),18	
DJW8AK	GlobalFiler™					
	11,14,15,18.3	17,19,24	10,11,11.3	15,16,18		11,13
4e		9,10,11,13	14,14		12,16	15,18,22,23
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2	11,15,16	X,Y	10,11,12	21,23	
		17,19,25.2,28.2	6,9,9.3	8,11	16,17,18	
DKPXKY	PowerPlex® FUSION					
	(11),14,15,(18.3)	17,(19),(24)	10,11,(11.3)	15,16,(18)		11,(12),13
4e		(9),(10),11,13	14		12,(14),(16)	15,(18),22,(23)
	(9),11,(13)	11,(13)		13,(17),19	(12),14,15	
	28,(29),31,(31.2)	(11),15,16	X,(Y)	(10),11,12	21,(23)	8,10
	5,8		6,(9),9.3	8,(9),11	16,(17),18	
DXQTB7	PowerPlex® Fusion 6C					
	14,15	17,17,[19]	10,11,[11.3]	15,16,[18]		11,13
4e		11,13	14,14		12,12,[14],[16]	15,[18],22,[23]
	[9],11,11	11,11,[13]		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	15,16	X,X	11,12	21,21	8,10,[15]
	5,8	17,[19],25.2,[28.2]	6,9.3	8,11	16,18	
E2TW28	PowerPlex® Fusion 6C					
	14,15	17,17	10,11	15,16		11,13
4e		11,13	14,14		12,12	15,22
	11,11	11,11		13,19	14,15	
	28,31	15,16	X,X	11,12	21,21	8,10
	5,8	17,25.2	6,9.3	8,11	16,18	

TABLE 1

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

Item 4e - STR Results

E6AAMF	GlobalFiler™					
	11,14,15,18.3	17,[19],24	10,11,11.3	15,16,18		11,12,13
4e		9,11,13	14		12,14,16	15,18,22
	[9],11,13	11,[13]		13,[17],19	[12],14,15	
	28,31,31.2	11,15,16	X,[Y]	11,12	21,[23]	
		17,[19],25.5,[28.2]	6,9.3	8,[9],11	16,18	
EA3HP2	PowerPlex® Fusion					
	14,15	17,17,[19,24]	10,11,[11.3]	15,16,[18]		11,[12],13
4e		[9],11,13	14,14		12,12	15,[18],22,[23]
	11,11,[13]	11,11,[13]		13,[17],19	[12],14,15	
	28,[29],31	[11],15,16	X,X,[Y]	[10],11,12	21,21,[23]	8,10
	5,8		6,[9],9.3	8,11	16,[17],18	
EC6JPY	PowerPlex® Fusion					
	14,15,[18.3]	17,[19,24]	10,11,[11.3]	15,16,[18]		11,[12],13
4e		[9,10],11,13	14		12,[14]	15,[18],22,[23]
	[9],11,[13]	11,[13]		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	[11],15,16	X,[Y]	[10],11,12	21,[23]	8,10
	5,8		6,9.3	8,[9],11	16,[17],18	
EEUMH7	PowerPlex® FUSION-ESX, GlobalFiler™					
	14,15	17	10,11	15,16		11,13
4e		11,13	14		12	15,22
	11	11		13,19	14,15	
	28,31	15,16	X	11,12	21	
		17,25.2	6,9.3	8,11	16,18	
ELUZMF	PowerPlex® Fusion					
	14,15	17,17	10,11	15,16		11,13
4e		11,13	14,14		12,12	15,22
	11,11	11,11		13,19	14,15	
	28,31	15,16	X,X	11,12	21,21	8,10
	5,8		6,9.3	8,11	16,18	
EPW38B	Identifiler® Plus					
	-	17	-	15,16	-	11,13
4e		11,13	14	-	-	-
	11	11	-	13,19	14,15	-
	28,31	-	X,X	11,12	21	-
	-	-	6,9.3	8,11	16,18	
ETD977	GlobalFiler™					
	14,15,18.3	17,19,24	10,11,11.3	15,16,18		11,12,13
4e		9,10,11,13	14,14		12,14,16	15,22,23
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2	11,15,16	X,Y	10,11,12	21,23	
		17,19,25.2,28.2	6,9,9.3	8,11	16,17,18	

TABLE 1

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

Item 4e - STR Results

EYGCUJ	PowerPlex® Fusion 6C					
	[11],14,15,[18.3]	17,[19,24]	10,11,[11.3]	15,16		11,[12],13
4e		[9],11,13	14		12,[14,16]	15,[18],22,[23]
	[9],11,[13]	11,[13]		13,[17],19	14,15	
	28,31	15,16	X,[Y]	11,12	21	8,10,[15]
	5,8	17,25.2	6,[9],9.3	8,11	16,[17],18	
F6LDTR	Identifiler® +					
		16,17		14,15,16		11,12,13
4e		11,13	13,14			
	10,11	10,11		12,13,18,19	12,13,14,15	
	28,29,30,31		X	10,11,12	20,21	
			6,9.3	8,11	16,17,18	
FAVU2F	PowerPlex® Fusion 6C					
	[11],14,15,[18.3]	17,[24]	10,11	15,16		11,[12],13
4e		11,13	14		12,[14]	15,22
	[9],11	11,[13]		13,[17],19	[12],14,15	
	28,31	[11],15,16	X	11,12	21,[23]	8,10
	5,8	17,25.2	6,9.3	8,11	16,[17],18	
FBUPTY	Identifiler® Plus					
		17,19,24		15,16,18		11,13
4e		9,11,13	14			
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2		X,Y	11,12	21,23	
			6,9,9.3	8,11	16,18	
FP8A7W	PowerPlex® FUSION					
	(11),14,15	17	10,11,(11.3)	15,16,(18)	NOT TESTED	11,(12),13
4e	NOT TESTED	(9),(10),11,13	14	NOT TESTED	12	15,(18),22,(23)
	11,(13)	11,(13)	NOT TESTED	13,(17),19	(12),14,15	NOT TESTED
	28,(29),31,(31.2)	15,16	X,(Y)	(10),11,12	21,(23)	8,10,(15)
	5,8	NOT TESTED	6,(9),9.3	8,11	16,(17),18	
FWAEYG	Identifiler®					
		17,19,24		15,16,18		11,12,13
4e		9,10,11,13	14,14			
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2		X,Y	10,11,12	21,23	
			6,9,9.3	8,9,11	16,17,18	
GC3972	GlobalFiler™					
	14,15	17,17	10,11	15,16	-	11,13
4e	-	11,13	14,14	-	12,12	15,22
	11,11	11,11	-	13,19	14,15	-
	28,31	15,16	XX	11,12	21,21	-
	-	17,25.2	6,9.3	8,11	16,18	

TABLE 1

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

Item 4e - STR Results

GCHKTC	GlobalFiler™					
	11,14,15,18.3	17,[19],24	10,11,11.3	15,16,18		11,12,13
	4e	9,10,11,13	14		12,14,16	15,[18],22
	9,11,13	11,13		13,17,19	[12],14,15	
	28,29,31,[31.2]	11,15,16	X,[Y]	11,12	21,[23]	
	17,[19],25.2,[28.2]	6,[9],9.3	8,[9],11	16,18		
GL3YPM	GlobalFiler™					
	(11),14,15,(18.3)	17,(19),(24)	10,11,(11.3)	15,16,(18)		11,(12),13
	4e	(9),(10),11,13	14		12,(14),(16)	15,(18),22,(23)
	(9),11,(13)	11,(13)		13,(17),19	(12),14,15	
	28,(29),31,(31.2)	(11),15,16	X,(Y)	(10),11,12	21,(23)	
	17,(19),25.2,(28.2)	6,(9),9.3	8,(9),11	16,(17),18		
GLQ683	GlobalFiler™					
	14,15	17,[19],[24]	10,11,[11.3]	15,16		11,[12],13
	4e	[9],11,13	14		12	15,[18],22
	11	11		13,19	[12],14,15	
	28,[29],31,[31.2]	[11],15,16	X,[Y]	11,12	21,[23]	
	17,25.2	6,[9],9.3	8,11	16,[17],18		
GQYPVY	PowerPlex® Fusion					
	14,15	17,17,(19)	10,11,(11.3)	15,16,(18)		11,(12),13
	4e	(9),(10),11,13	14,14		12,12,(14),(16)	15,(18),22,(23)
	(9),11,11,(13)	11,11,(13)		13,(17),19	(12),14,15	
	28,(29),31,(31.2)	(11),15,16	X,X,(Y)	11,12	21,21,(23)	8,10,(15)
	5,8	6,(9),9.3	8,(9),11	16,(17),18		
GTREH2	PowerPlex® 16					
				15,16		11,12,13
	4e	9,10,11,13	14,14			
	9,11,13	11,13		13,17,19		
	28,29,31		X,X	11,12	21,21	8,10
	5,8	6,9,9.3	8,11	16,18		
H7AJ89	PowerPlex® FUSION					
	14,15	17,17	10,11	15,16		11,13
	4e	11,13	14,14		12,12	15,22
	11,11	11,11		13,19	14,15	
	28,31	15,16	X,X	11,12	21,21	8,10
	5,8	6,9.3	8,11	16,18		
H9F4V9	PowerPlex® Fusion 6C					
	[11],14,15,[18.3]	17,[19],[24]	10,11,[11.3]	15,16,[18]		11,[12],13
	4e	[9],[10],11,13	14		12,[14],[16]	15,[18],22,[23]
	[9],11,[13]	11,[13]		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	[11],15,16	X,[Y]	[10],11,12	21,[23]	8,10
	5,8	17,[19],25.2,[28.2]	6,[9],9.3	8,[9],11	16,18	

TABLE 1

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

Item 4e - STR Results

HFDW43	Identifiler® Plus					
		16,17		14,15,16		11,13
4e		11,13	13,14			
	9,10,11	10,11		13,19	14,15	
	28,30,31		X	10,11,12	20,21	
			6,9.3	8,11	16,17,18	
HG8PWZ	GlobalFiler™					
	11,14,15,18.3	17,19,24	10,11,11.3	15,16,18		11,12,13
4e		9,10,11,13	14,14		12,14,16	15,18,22,23
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2	11,15,16	X,Y	10,11,12	21,23	
		17,19,25.2,28.2	6,9,9.3	8,9,11	16,17,18	
HUWNN4	PowerPlex® Fusion					
	11,14,15,18.3	17,19	10,11,11.3	15,16,18		11,12,13
4e		9,11,13	14		12	15,18,22,23
	11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2	15,16	X,Y	10,11,12	21,23	8,10
	5,8		6,9,9.3	8,9,11	16,17,18	
HUXC83	Identifiler® Plus					
	NA	16,17	NA	14,15,16	NA	11,12,13
4e	NA	11,13	13,14	NA	NA	NA
	9,10,11	10,11	NA	13,19	14,15	NA
	28,29,31,31.2	NA	X	11,12	20,21	NA
	NA	NA	6,9.3	8,11	16,17,18	
HZ26GX	PowerPlex® Fusion					
	11,14,15,18.3	17,19,24	10,11,11.3	15,16,18		11,12,13
4e		9,10,11,13	14		12,14,16	15,18,22,23
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2	11,15,16	X,Y	10,11,12	21,23	8,10,15
	5,8		6,9,9.3	8,9,11	16,17,18	
JBLPJ9	PowerPlex® Fusion 6C					
	[11],14,15,[18.3]	17,[19],[24]	10,11,[11.3]	15,16,[18]		11,13
4e		[9],[10],11,13	14		12,[14],[16]	15,[18],22
	[9],11,[13]	11,[13]		13,[17],19	14,15	
	28,[29],31,[31.2]	[11],15,16	X,[Y]	11,12	21,[23]	8,10,[15]
	5,8	17,[19],25.2,[28.2]	6,[9],9.3	8,[9],11	16,18	
JDL3Z8	Identifiler® Plus					
		17		15,16		11,13
4e		11,13	14			
	11	11		13,19	14,15	
	28,31		X,X	11,12	21	
			6,9.3	8,11	16,18	

TABLE 1

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

Item 4e - STR Results

JEW7AP	Identifiler® Plus					
		16,17		14,15,16,18		11,12,13
4e		9,10,11,13	13,14			
	9,11,13	10,11,13		13,17,18,19	12,13,14,15	
	28,29,31,31.2		X,Y	10,11,12	20,21	
			6,9,9.3	8,9,11	15,16,17,18	
JFB9K4	Identifiler® Plus					
		17,17,[(19)],[(24)]		15,16,[(18)]		11,[(12)],13
4e		[(10)],11,13	14,14			
	[9],11,11,[(13)]	11,11,[(13)]		13,[(17)],19	[(12)],14,15	
	28,[(29)],31,[(31.2)]		X,X,[(Y)]	11,12	21,21,[(23)]	
			6,[(9)],9.3	8,11	16,[(17)],18	
JLHUC8	GlobalFiler™					
	[11],14,15,[18.3]	17,[19],[24]	10,11,[11.3]	15,16,[18]		11,[12],13
4e		[9],[10],11,13	14		12,[14],[16]	15,[18],22,[23]
	[9],11,[13]	11,[13]		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	[11],15,16	X,[Y]	[10],11,12	21,[23]	
		17,[19],25.2,[28.2]	6,[9],9.3	8,[9],11	16,[17],18	
KHWEDY	GlobalFiler™					
	14,15,[18.3]	17,[19],[24]	10,11,[11.3]	15,16		11,[12],13
4e		[9],[10],11,13	14		12,[14],[16]	15,22
	[9],11,[13]	11		13,19	[12],14,15	
	28,[29],31	[11],15,16	X	[10],11,12	21,[23]	
		17,[19],25.2,[28.2]	6,[9],9.3	8,11	16,[17],18	
KJ7MHD	PowerPlex® Fusion					
	14,15,18.3	17,19	10,11,11.3	15,16,18		11,13
4e		9,10,11,13	14,14		12,14	15,18,22,23
	9,11,13	11,11		13,17,19	12,14,15	
	28,29,31	15,16	X,X	10,11,12	21,23	8,10
	5,8		6,9.3	8,11	16,17,18	
KLUXFX	GlobalFiler™					
	[11],14,15,[18.3]	17,17,[19],[24]	10,11,[11.3]	15,16,[18]		11,[12],13
4e		[9],[10],11,13	14,14		12,12,[14],[16]	15,[18],22,[23]
	[9],11,11,[13]	11,11		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	[11],15,16	X,X,[Y]	[10],11,12	21,21,[23]	
		17,[19],25.2	6,[9],9.3	8,[9],11	16,[17],18	
KRXZFR	PowerPlex® Fusion					
	[11],14,15,[18.3]	17,[19],[24]	10,11,[11.3]	15,16,[18]		11,[12],13
4e		[9],11,13	14		12,[14],[16]	15,[18],22,[23]
	[9],11,[13]	11,[13]		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	[11],15,16	X,[Y]	11,12	21,[23]	8,10,[15]
	5,8		6,[9],9.3	8,11	16,[17],18	

TABLE 1

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

Item 4e - STR Results

LHTAEG	PowerPlex® Fusion 5C					
	14,15,[18.3]	17,[19,24]	10,11,[11.3]	15,16		11,[12],13
4e		[9,10],11,13	14		12,[14]	15,[18],22,[23]
	[9],11,[13]	11,[13]		13,19	[12],14,15	
	18,[29],31,[31.2]	15,16	X	[10],11,12	21,[23]	8,10,[15]
	5,8		6,[9],9.3	8,11	16,[17],18	
LHTC4K	Identifiler® Plus					
		17,19,24		14,15,16,18		11,12,13
4e		9,10,11,13	14			
	10,11,13	10,11,13		13,17,19	12,14,15	
	28,29,31		X	10,11,12	20,21	
			6,9,9.3	8,11	16,17,18	
LJ4ADW	Identifiler® Plus					
		17,19		15,16,18		11,12,13
4e		11,13	14,14			
	9,11	11,11		13,19	14,15	
	28,31		X,X	11,12	21,21	
			6,9,9.3	8,11	16,17,18	
LKVACT	PowerPlex® ESI-16 fast, Fusion 6C					
	14,15	17,17	10,11	15,16		11,13
4e		11,13	14,14		12,12	15,22
	11,11	11,11		13,19	14,15	
	28,31	15,16	X,X	11,12	21,21	8,10
	5,8	17,25.2	6,9.3	8,11	16,18	
LUPEN3	Identifiler® Plus					
		16,17,24		14,15,16,18		10,11,12,13
4e		9,10,11,12,13	13,14			
	9,10,11	10,11,13		12,13,17,18,19	13,14,15	
	28,29,31,31.2		X	10,11,12	20,21	
			6,9,9.3	8,10,11	15,16,17,18	
LWB6RR	PowerPlex® FUSION					
	[11],14,15,[18.3]	17,[19],[24]	10,11	15,16,[18]	NT	11,[12],13
4e	NT	[9],[10],11,13	14	NT	12,[16]	15,[18],22,[23]
	[9],11	11,[13]	NT	13,[17],19	[12],14,15	NT
	28,[29],31,[31.2]	[11],15,16	X,[Y]	11,12	21,[23]	8,10,[15]
	5,8	NT	6,[9],9.3	8,11	16,[17],18	
M64PF6	GlobalFiler™					
	(11),14,15,(18.3)	17,(19),(24)	10,11,(11.3)	15,16,(18)		11,(12),13
4e		(9),(10),11,13	14		12,(14),(16)	15,22,(23),(-)
	(9),11,(13)	11,(-)		13,(17),19	(12),14,15	
	28,(29),31,(-)	(11),15,16	X,(Y)	(10),11,12	21,(23)	
		17,25.2,(-)	6,(9),9.3	8,11,(-)	16,(17),18	

TABLE 1

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

Item 4e - STR Results

M6JA2N	Identifiler® Plus	17,19,24		15,16,18		11,12,13
4e		9,11,13	14			
		9,11,13	11,13	13,17,19	12,14,15	
		28,29,31,31.2	X,Y	11,12	21	
			6,9,9.3	8,9,11	16,18	
M7VT3K	Identifiler® Plus	16,17,19		14,15,16		11,12,13
4e		9,10,11,12,13	13,14			
		10,11	10,11	13,18,19	13,14,15	
		27,28,29,30,31	X	10,11,12	20,21	
			6,9.3	8,11	16,17,18	
ME6D83	Identifiler® Plus	17,19,24		14,15,16,18		10,11,12,13
4e		9,10,11,12,13	13,14			
		9,11,13	10,11	12,13,17,18,19	12,13,14,15	
		28,29,31,31.2	X	10,11,12	20,21,23	
			6,9,9.3	8,9,10,11	15,16,17,18	
MFKCN7	PowerPlex® Fusion 6C	[11],14,15,[18.3]	17,[19],[24]	10,11,[11.3]	15,16,[[18]]	11,[12],13
4e		[9],[10],11,13	14		12,[14],[16]	15,[18],22,[23]
		[9],11,[[13]]	11,[13]	13,[17],19	[[12]],14,15	
		28,[29],31,[[31.2]]	[[11]],15,16	X,[Y]	[10],11,12	21,[23]
		5,8	17,[[19]],25.2,[[28.2]]	6,[9],9.3	8,[9],11	16,[17],18
MW6694	Identifiler® Plus	17		15,16		11,13
4e		11,13	14			
		11	11	13,19	14,15	
		28,31	X,X	11,12	21	
			6,9.3	8,11	16,18	
NB3WAY	Identifiler® Plus, MiniFiler	17,24		15,16,18		11,12,13
4e		9,10,11,13	14			
		9,11,13	11,13	13,17,19	14,15	
		28,31	X	11,12	21	
			6,9.3	8,11	16,17,18	
NH32GH	GlobalFiler™	[11],14,15	17,[19]	10,11	15,16	11,[12],13
4e		[9],11,13	14		12,[14]	15,22
		11	11	13,19	[12],14,15	
		28,[29],31,[31.2]	[[11]],15,16	X	11,12	21
			17,[19],25.2,[28.2]	6,9.3	8,11	16,18

TABLE 1

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

Item 4e - STR Results

NPJPZQ	Identifiler® Plus					
		17,[24]		15,16		11,13
4e		11,13	14			
	11,[13]	11,[13]		13,[17],19	14,15	
	28,[29],31,[31.2]		X	11,12	21	
			6,[9],9.3	8,11	16,18	
NT3QYJ	Identifiler® Plus					
		16,17,19		14,15,16,18		11,12,13
4e		9,10,11,13	13,14			
	9,11,13	10,11		13,17,19	12,13,14,15	
	28,29,31,31.2		X,Y	10,11,12	20,21,23	
			6,9,9.3	8,11	15,16,17,18	
NW28AR	PowerPlex® Fusion					
	[11],14,15,[18.3]	17,17,[19],[24]	10,11,[11.3]	15,16,[18]		11,[12],13
4e		[9],[10],11,13	14,14		12,12,[14],[16]	15,[18],22,[23]
	[9],11,11,[13]	11,11,[13]		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	[11],15,16	X,X,[Y]	11,12	21,21,[23]	8,10,[15]
	5,8		6,[9],9.3	8,[9],11	16,[17],18	
NW2ZB7	PowerPlex® Fusion					
	11,14,15,18.3	17,17,[19],[24]	10,11,[11.3]	15,16,18		11,12,13
4e		9,10,11,13	14,14		12,14,16	15,22,23
	11,11,[13]	11,11,[13]		13,17,19	12,14,15	
	28,29,31,31.2	15,16	X,X,[Y]	10,11,12	21,21,[23]	8,10
	5,8		6,[9],9.3	8,11	16,17,18	
NZ29H2	Identifiler® Plus					
		17,19,24		15,16,18		11,12,13
4e		9,10,11,13	14			
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2		X	10,11,12	21,23	
			6,9,9.3	8,9,11	16,17,18	
P6CNGR	GlobalFiler™					
	(11),14,15	17,17	10,11,(11.3)	15,16,(18)		11,13
4e		(9,10),11,13	14,14		12,12,(14)	15,22
	(9),11,11,(13)	11,11		13,(17),19	(12),14,15	
	28,(29),31,(31.2)	(11),15,16	X,X,(Y)	11,12	21,21,(23)	
		17,25.2,(28.2)	6,(9),9.3	8,11	16,18	
P6DET2	PowerPlex® Fusion					
	14,15	17,17,[24]	10,11	15,16		11,13
4e		[10],11,13	14,14		12,12	15,22
	11,11	11,11		13,[17],19	[12],14,15	
	28,[29],31	15,16	X,X	11,12	21,21	8,10
	5,8		6,9.3	8,11	16,18	

TABLE 1

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

Item 4e - STR Results

PN4R2Y	Identifiler® Plus, MiniFiler					
		17,19		15,16,18		11,12,13
4e		10,11,13	14,14			
	9,11,13	11,11		13,19	12,14,15	
	28,31		X,Y	11,12	21,21	
			6,9.3	8,11	16,17,18	
PYN4DC	PowerPlex® Fusion					
	[11],14,15,[18.3]	17,[24]	10,11,[11.3]	15,16,[18]		11,[12],13
4e		[9],[10],11,13	14		12,[14]	15,[18],22,[23]
	11	11,[13]		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	15,16	X,[Y]	11,12	21,[23]	8,10
	5,8		[6],[9],9.3	8,[9],11	16,[17],18	
Q7KBDW	Identifiler® Plus					
		17,19,24		14,15,16,18		10,11,12,13
4e		9,10,11,12,13	13,14			
	9,11,13	10,11		12,13,17,18,19	12,13,14,15	
	28,29,31,31.2		X	10,11,12	20,21,23	
			6,9,9.3	8,9,10,11	15,16,17,18	
QFRXKC	GlobalFiler™					
	[11],14,15	17,[19],[24]	10,11,[11.3]	15,16		11,[12],13
4e		[9],11,13	14		12,[14]	15,22
	[9],11,[13]	11		13,19	[12],14,15	
	28,[29],31,[31.2]	[11],15,16	X,X	[10],11,12	21	
		17,[19],25.2	6,9.3	8,11	16,18	
QPPFDV	Identifiler® Plus					
	N/A	17,17	N/A	15,16	N/A	11,13
4e	N/A	11,13	14,14	N/A	N/A	N/A
	11,11	11,11	N/A	13,19	14,15	N/A
	28,31	N/A	X,X	11,12	21,21	N/A
	N/A	N/A	6,9.3	8,11	16,18	
RMMDQV	Identifiler® Plus					
		17,24		15,16,18		11,12,13
4e		9,11,13	14			
	9,11,13	11		13,19	14,15	
	28,29,31,31.2		X	11,12	21	
			6,9.3	8,11	16,18	
RNDH3E	Identifiler® Plus					
		16,17		14,15,16		11,12,13
4e		10,11,12,13	13,14			
	10,11,13	10,11		13,18,19	13,14,15	
	27,28,30,31,31.2		X	10,11,12	20,21	
			6,9.3	8,11	15,16,17,18	

TABLE 1

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

Item 4e - STR Results

RXN28L	PowerPlex® Fusion					
	14,15	17,[24]	10,11	15,16	Not tested	11,[12],13
	Not tested	11,13	14	Not tested	12	15,[18],22
	11	11	Not tested	13,19	14,15	Not tested
	28,31,[31.2]	15,16	X	11,12	21	8,10
5,8	Not tested	6,[9],9.3	8,11	16,[17],18		
RT8HEP	GlobalFiler™					
	[11],14,15	17,17,[24]	10,11,[11.3]	15,16,[18]		11,[12],13
	Not tested	[9,10],11,13	14,14		12,12,[14,16]	15,[18],22,[23]
	[9],11,11,[13]	11,11,[13]		13,[17],19	14,15	
	28,[29],31,[31.2]	[11],15,16	X,X,[Y]	[10],11,12	21,21,[23]	
	17,[19],25.2,[28.2]	6,[9],9.3	8,[9],11	16,18		
TCGWAN	GlobalFiler™					
	14,15,(18.3)	17,17,(24)	10,11,(11.3)	15,16		11,(12),13
	Not tested	(9),11,13	14,14		12,12,(16)	15,22
	11,11,(13)	11,11		13,19	14,15	
	28,31,(31.2)	15,16	X,X,(Y)	(10),11,12	21,21	
	17,(19),25.2,(28.2)	6,9.3	8,11	16,(17),18		
TKDRCT	PowerPlex® Fusion					
	11,14,15,18.3	17,19,24	10,11,11.3	15,16,18		11,12,13
	Not tested	9,10,11,13	14		12,14,16	15,18,22,23
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2	11,15,16	X,Y	10,11,12	21,23	8,10,15
5,8		6,9,9.3	8,9,11	16,17,18		
TNUWAN	PowerPlex® Fusion 6C					
	14,15,18.3	17,19	10,11	15,16		11,12,13
	Not tested	9,10,11,13	14,14		12,14	15,18,22,23
	11,13	11,11		13,17,19	14,15	
	28,29,31	11,15,16	X,Y	10,11,12	21,21	8,10
5,8	17,19,25.2,28.2	6,9,9.3	8,9,11	16,17,18		
TP8LFM	Identifiler®					
		17,17,[19],[24]		15,16,[18]		11,[12],13
	Not tested	[9],[10],11,13	14,14			
	[9],11,11,[13]	11,11,[13]		13,[17],19	[12],14,15	
	28,[29],31,[31.2]		X,X,[Y]	[10],11,12	21,21,[23]	
		6,[9],9.3	8,[9],11	16,18		
TUHGCI	PowerPlex® Fusion					
	14,15	17	10,11	15,16		11,13
	Not tested	11,13	14		12	15,22
	11	11		13,19	14,15	
	28,31	15,16	X	11,12	21,23	8,10
5,8		6,9.3	8,11	16,17,18		

TABLE 1

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

Item 4e - STR Results

TUYX7C	GlobalFiler™					
	[11],14,15	17,[19]	10,11	15,16,[18]		11,[12],13
4e		[10],11,13	14		12,[14],[16]	15,[18],22
	[9],11,[13]	11		13,19	[12],14,15	
	28,31,[31.2]	15,16	X,[Y]	11,12	21,[23]	
		17,[19],25.2	6,9.3	8,11	16,[17],18	
TXGXLR	PowerPlex® ESX-17					
	14,15	17	10,11	15,16		
4e			14		12	15,22
		11		13,19	14,15	
	28,31	15,16	X		21	
		17,25.2	6,9.3		16,18	
TYUMP6	PowerPlex® Fusion 5C					
	14,15	17,17	10,11	15,16		11,12,13
4e		11,13	14,14		12,12	15,18,22,23
	11,11	11,11		13,17,19	12,14,15	
	28,31	15,16	X,Y	11,12	21,23	8,10
	5,8		6,9.3	8,11	16,17,18	
TZP49T	Identifiler® Plus					
	NA	16,17	NA	14,15,16	NA	11,12,13
4e	NA	11,13	13,14	NA	NA	NA
	10,11,13	10,11,13	NA	13,19	13,14,15	NA
	28,31	NA	X	10,11,12	20,21	NA
	NA	NA	6,9.3	8,11	15,16,18	
U3M77T	PowerPlex® Fusion					
	14,15	17,[24]	10,11	15,16,[18]		11,[12],13
4e		11,13	14		12	15,[18],22
	11	11		13,[17],19	[12],14,15	
	28,[29],31	15,16	X	[10],11,12	21,[23]	8,10
	5,8		6,[9],9.3	8,11	16,[17],18	
U3PTPT	Identifiler® Plus					
		17,19,24		15,16,18		11,12,13
4e		9,10,11,13	14			
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2		X,X	11,12	21,23	
			6,9,9.3	8,11	16,17,18	
UAAWTN	Identifiler® Plus					
		17,19,24		15,16,18		11,12,13
4e		9,10,11,13	14,14			
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2		X,Y	11,12	21,23	
			6,9,9.3	8,11	16,17,18	

TABLE 1

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

Item 4e - STR Results

UB3M6U	Identifiler® Plus	16,17,19		14,15,16		10,11,12,13
4e		9,10,11,13	13,14			
		9,11,13	10,11	12,13,17,18,19	12,13,14,15	
		28,29,31,31.2	X,Y	10,11,12	20,21,23	
			6,9,9.3	8,10,11	15,16,17,18	
UB3PN8	GlobalFiler™					
	[11],14,15	17	10,11	15,16		11,13
4e		11,13	14		12,[14]	15,22
	[9],11,[13]	11		13,19	14,15	
	28,31	15,16	X,[Y]	11,12	21	
		17,25.2	6,9.3	8,11	16,18	
UB4F2G	PowerPlex® 21					
	11,14,15	17,19,24		15,16,18		11,13
4e		11,13	14			15,22,23
	11	11		13,17,19	12,14,15	
	28,31		X	11,12	21,23	8,10
	5,8		6,9.3	8,11	16,18	
VFD6TP	PowerPlex® Fusion					
	(11),14,15,(18.3)	17,17,(19),(24)	10,11,(11.3)	15,16,(18)		11,(12),13
4e		(9),(10),11,13	14,14		12,12,(14)	15,(18),22,(23)
	(9),11,11,(13)	11,11		13,(17),19	(12),14,15	
	28,(29),31,(31.2)	(11),15,16	X,X,(Y)	11,12	21,21,(23)	8,10,(15)
	5,8		6,(9),9.3	8,(9),11	16,(17),18	
VHX6VQ	GlobalFiler™					
	[11],14,15,[18.3]	17,[19],[24]	10,11,[11.3]	15,16,[18]		11,[12],13
4e		[9],10,11,13	14		12,[14],[16]	15,[18],22
	9,11,13	11		13,[17],19	14,15	
	28,[29],31,[31.2]	[11],15,16	X,[Y]	11,12	21,[23]	
		17,[19],25.2,[28.2]	6,[9],9.3	8,[9],11	16,18	
VLGYXJ	PowerPlex® Fusion 6C					
	[11],14,15,[18.3]	17,[19],[24]	10,11,[11.3]	15,16,[18]		11,[12],13
4e		[9],[10],11,13	14		12,[14],[16]	15,[18],22,[23]
	[9],11,[13]	11,[13]		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	15,16	X,[Y]	11,12	21,[23]	8,10,[15]
	5,8	17,[19],25.2	6,[9],9.3	8,[9],11	16,18	
VTXKWN	PowerPlex® FUSION					
	14,15	17	10,11	15,16		11,13
4e		11,13	14		12	15,22
	11	11		13,19	14,15	
	28,31	15,16	X	11,12	21	8,10
	5,8		6,9.3	8,11	16,18	

TABLE 1

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

Item 4e - STR Results

VW2B6P	Identifiler® Plus, MiniFiler					
		17,19		15,16,18		11,12,13
4e		10,11,13	14,14			
	9,11	11,13		13,19	12,14,15	
	28,29,31		X,Y	10,11,12	21,21	
			6,9,9.3	8,11	16,18	
WJMTQR	Identifiler® Plus					
		17,19,24		15,16,18		11,12,13
4e		9,10,11,13	14			
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31,31.2		X,Y	10,11,12	21,23	
			6,9,9.3	8,9,11	16,17,18	
WK4UTT	Identifiler® Plus					
	-	17	-	15,16	-	11,13
4e	-	11,13	14	-	-	-
	11	11	-	13,19	14,15	-
	28,31	-	X,X	11,12	21	-
	-	-	6,9.3	8,11	16,18	
WQ8VTM	GlobalFiler™					
	11,14,15	17,19,24	10,11,11.3	15,16		11,12,13
4e		9,11,13	14,14		12,14,16	15,18,22
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31	15,16	X,Y	11,12	21,23	
		17,19,25.2,28.2	6,9,9.3	8,9,11	16,17,18	
WX6PRL	GlobalFiler™					
	11,14,15,18.3	17,19	10,11	15,16,18		11,12,13
4e		9,10,11,13	14,14		12,14,16	15,22,23
	9,11	11,13		13,17,19	12,14,15	
	28,29,31,31.2	11,15,16	X,Y	10,11,12	21,23	
		17,19,25.2,28.2	6,9,9.3	8,9,11	16,18	
WY3ZK4	Identifiler®					
		17,17		15,16		11,13
4e		11,13	14,14			
	11,11	11,11		13,19	14,15	
	28,31		X,X	11,12	21,21	
			6,9.3	8,11	16,18	
X8BPZM	Identifiler® Plus					
		17,17		15,16		11,13
4e		11,13	14,14			
	11,11	11,11		13,19	14,15	
	28,29,31		X,X	11,12	21,21	
			6,9.3	8,11	16,18	

TABLE 1

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

Item 4e - STR Results

X96HV7	GlobalFiler™					
	[11],14,15,[18.3]	17,[19],[24]	10,11,[11.3]	15,16		11,[12],13
	4e	[9],[10],11,13	14		12,[14],[16]	15,[18],22,[23]
	[9],11,[13]	11,[13]		13,[17],19	[12],14,15	
	28,[29],31	[11],15,16	X,[Y]	[10],11,12	21,[23]	
	17,25.2,[28.2]	6,9.3	8,11	16,[17],18		
XAB3GK	GlobalFiler™					
	[11],14,15,[18.3]	17,[19],[24]	10,11,[11.3]	15,16,[18]		11,[12],13
	4e	[9],[10],11,13	14		12,[14],[16]	15,[18],22,[23]
	[9],11,[13]	11		13,[17],19	[12],14,15	
	28,[29],31	[11],15,16	X,[Y]	[10],11,12	21,[23]	
	17,[19],25.2	6,[9],9.3	8,[9],11	16,[17],18		
XE7UPH	PowerPlex® Fusion					
	(11),14,15,(18.3)	17,(19),(24)	10,11	15,16,(18)		11,(12),13
	4e	(9),(10),11,13	14		12,(14),(16)	15,(18),22,(23)
	(9),11,(13)	11		13,(17),19	(12),14,15	
	28,(29),31,(31.2)	(11),15,16	X,(Y)	(10),11,12	21,(23)	8,10
	5,8	6,(9),9.3	8,11	16,(17),18		
XJK68R	NGM SElect					
	(11),14,15	17,17,(19)	10,11,(11.3)	15,16		
	4e		14,14		12,12,(16)	15,(18),22
		11,11		13,19	14,15	
	28,31,(31.2)	15,16	X,X,(Y)		21,21	
	17,25.2	6,(9),9.3		16,18		
XWCWPB	Identifiler® Plus					
		17,19,24		14,15,16,18		10,11,12,13
	4e	10,11,12,13	13,14			
	9,11,13	10,11		12,13,18,19	12,13,14,15	
	27,28,29,30,31		X	10,11,12	20,21	
		6,9,9.3	8,11	15,16,17,18		
XXL7FM	PowerPlex® Fusion 6C					
	[11],14,15	17,17	10,11,[11.3]	15,16,[18]		11,[12],13
	4e	11,13	14,14		12,[16]	15,22
	[9],11,[13]	11,[13]		13,[17],19	[12],14,15	
	28,[29],31	15,16	X,[Y]	11,12	21,[23]	8,10
	5,8	17,25.2	6,9.3	8,11	16,18	
XZQUYJ	Identifiler® Plus					
		17,17		15,16,18		11,12,13
	4e	9,11,13	14,14			
	9,11	11,13		13,17,19	12,14,15	
	28,29,31,31.2		X,X	11,12	21,21	
		6,9,9.3	8,11	16,18		

TABLE 1

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

Item 4e - STR Results

Y87R3W	PowerPlex® Fusion 6C					
	[11],14,15,[18.3]	17,[19,24]	10,11,[11.3]	15,16,[18]		11,[12],13
4e		[9,10],11,13	14		12,[14,16]	15,[18],22,[23]
	11,[13]	11,[13]		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	[11],15,16	X,[Y]	11,12	21,[23]	8,10,[15]
	5,8	17,[19],25.2,[28.2]	6,[9],9.3	8,[9],11	16,[17],18	
YDTDEP	Identifiler® Plus					
		17,19,24		15,16,18		11,12,13
4e		9,10,11,13	14			
	9,11,13	11,13		13,19	12,14,15	
	28,29,31,31.2		X,Y	10,11,12	21	
			6,9,9.3	8,9,11	16,17,18	
YEN3GX	PowerPlex® Fusion 6C					
	14,15	17,[24]	10,11,[11.3]	15,16		11,13
4e		11,13	14		12	15,22
	11,[13]	11,[13]		13,[17],19	[12],14,15	
	28,[29],31	[11],15,16	X,[Y]	11,12	21	8,10
	5,8	17,25.2	6,[9],9.3	8,11	16,18	
YKDFHL	Identifiler® ID+					
		17,19		15,16,18		11,12,13
4e		10,11,13	14,14			
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31		X,X	11,12	21,23	
			6,9,9.3	8,9,11	16,17,18	
YMZCNQ	PowerPlex® Fusion					
	14,15	17,17	10,11	15,16		11,13
4e		11,13	14,14		12,12	15,22
	11,11	11,11		13,19	14,15	
	28,31	15,16	X,X	11,12	21,21	8,10
	5,8		6,9.3	8,11	16,18	
YTM6VJ	Identifiler®, Identifiler Plus					
		17,19,24		15,16,18		11,12,13
4e		9,11,13	14,14			
	9,11,13	11,13		13,17,19	12,14,15	
	28,29,31		X,Y	11,12	21,23	
			6,9,9.3	8,9,11	16,18	
Z3U7UP	Identifiler® Plus					
	-	17,19,24	-	15,16,18	-	11,12,13
4e	-	9,10,11,13	14	-	-	-
	9,11,13	11,13	-	13,17,19	12,14,15	-
	28,29,31,31.2	-	X,Y	10,11,12	21,23	-
	-	-	6,9,9.3	8,9,11	16,17,18	-

TABLE 1

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

Item 4e - STR Results

ZGMZ3A	Identifiler® Plus	17,17		15,16		11,13
4e		11,13	14,14			
		11,11	11,11	13,19	14,15	
		28,31	X,X	11,12	21,21	
			6,9.3	8,11	16,18	
ZL47Z6	GlobalFiler™					
	[11],14,15,[18.3]	17,[19,24]	10,11,[11.3]	15,16,[18]		11,[12],13
4e		[9,10],11,13	14		12,[14,16]	15,[18],22,[23]
	[9],11,[13]	11,[13]		13,[17],19	[12],14,15	
	28,[29],31,[31.2]	[11],15,16	X,[Y]	[10],11,12	21,[23]	
		17,[19],25.2,[28.2]	6,[9],9.3	8,[9],11	16,[17],18	
ZVRWMX	PowerPlex® Fusion 6C					
	14,15	17	10,11	15,16		11,13
4e		11,13	14		12	15,22
	11	11		13,19	14,15	
	28,31	15,16	X	11,12	21	8,10
	5,8	17,25.2	6,9.3	8,11	16,18	

TABLE 1

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

Item 4sp - STR Results

23MG6J	PowerPlex® Fusion 5C					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10		14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
2B26YK	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10		14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	
2DL8RC	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10		14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	
2G69NJ	GlobalFiler™					
	[10],11,[17.3],18.3,[Q]	[17],[18],19,24,[Q]	[10],11,11.3,[Q]	[15],16,[17],18,[Q]	NT	[10],11,12,[Q]
4sp	NT	[8],9,10,[Q]	[13],14,14,[Q]	NT	[13],14,[15],16,[Q]	[17],18,[22],23,[Q]
	[8],9,[12],13,[Q]	[10],11,[12],13,[Q]	NT	[12],13,[16],17,[Q]	[11],12,[13],14,[Q]	NT
	[28],29,[30.2],31.2,[Q]	[10],11,[14],15,[Q]	X,Y	[9],10,[11],12,[Q]	[20],21,[22],23,[Q]	NT
	NT	[18],19,[27.2],28.2,[Q]	9,9.3,[Q]	8,9,[Q]	[15],16,17,[Q]	
2KLEME	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10		14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5		9,9.3	8,9	16,17	
2TYK4H	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10		14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	
33FQB7	Identifiler® Plus					
		19,24		16,18		11,12
4sp	9,10		14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	

TABLE 1

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

Item 4sp - STR Results

3C6HVC	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
3D4KPN	Identifiler® Plus					
	-	19,24	-	16,18	-	11,12
4sp		9,10	14	-	-	-
	9,13	11,13	-	13,17	12,14	-
	29,31.2	-	X,Y	10,12	21,23	-
	-	-	9,9.3	8,9	16,17	
3G27E6	Identifiler® Plus					
		19,24		16,18		11,12
4sp		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
3PFNER	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
4DWTBC	Identifiler® Plus					
		19,24		16,18		11,12
4sp		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
687KNX	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
6AC7DH	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5		9,9.3	8,9	16,17	

TABLE 1

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

Item 4sp - STR Results

6ATE7J	Identifiler® Plus	17,19,23,24		15,16,18		11,12
4sp		9,10	13,14			
		9,11,13	11,12,13	13,17	12,14	
		29,31,31.2	X,Y	10,11,12	21,23	
			9,9.3	8,9	16,17,18	
6MYDBJ	Identifiler® Plus	19,24		16,18		11,12
4sp		9,10	14			
		9,13	11,13	13,17	12,14	
		29,31.2	X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
6WPWQD	GlobalFiler™	11,18.3	19,24	11,11.3	16,18	11,12
4sp		9,10	14,14		14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
		19,28.2	9,9.3	8,9	16,17	
7FDUAG	Identifiler® Plus	19,24		16,18		11,12
4sp		9,10	14			
		9,13	11,13	13,17	12,14	
		29,31.2	X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
7KBDCF	Identifiler® Plus	19,24		16,18		11,12
4sp		9,10	14,14			
		9,13	11,13	13,17	12,14	
		29,31.2	X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
7MW6GQ	PowerPlex® Fusion	11,18.3	19,24	11,11.3	16,18	11,12
4sp		9,10	14		[12],14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
		5	19,28.2	9,9.3	8,9	16,17
7XFJH8	PowerPlex® Fusion	11,18.3	19,24	11,11.3	16,18	11,12
4sp		9,10	14,14		14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
		5,5	9,9.3	8,9	16,17	10,15

TABLE 1

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

Item 4sp - STR Results

89TZQ6	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18	NT	11,12
4sp	NT	9,10	14,14	NT	14,16	18,23
	9,13	11,13	NT	13,17	12,14	NT
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	NT	9,9.3	8,9	16,17	
8DNVPQ	PowerPlex® 16					
				16,18		11,12
4sp		9,10	14,14			
	9,13	11,13		13,17		
	29,31.2		X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
8EGNKA	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
8HX4WM	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
8MVMYL	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
8NNHJ9	PowerPlex® 16					
				16,18		11,12
4sp		9,10	14,14			
	9,13	11,13		13,17		
	29,31.2		X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
8THFBK	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14,[15]	
	29,31.2	11,15	X,Y	10,12	21,23	[8],10,15
	5	19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 4sp - STR Results

8WDBRY	Identifiler® Plus					
		19,24		16,18		11,12
4sp		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
8XTDX8	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5		9,9.3	8,9	16,17	
94FH73	Identifiler® Plus					
		19,24		16,18		11,12
4sp		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
9AKAJ7	PowerPlex® ESX 16 Fast					
	11,18.3	19,24	11,11.3	16,18		
4sp			14		14,16	18,23
		11,13		13,17	12,14	
	29,31.2	11,15	X,Y		21,23	
			9,9.3		16,17	
9DN9Z7	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	23	
		19,28.2	9,9.3	8,9	16,17	
9HXDKD	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
A93RT6	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5		9,9.3	8,9	16,17	

TABLE 1

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

Item 4sp - STR Results

ABVGF8	Identifiler® Plus					
		19,24		16,18		11,12
4sp		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
AD24TC	Investigator® 24plex					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
AE6Y99	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,[18]		11,12
4sp		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	[10],12	21,23	
		19,28.2	9,9.3	8,9	16,17	
AE7VJ4	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
AJ49P2	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
AMMALA	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
ARUVCR	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 4sp - STR Results

ATCMNW	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
B2KWC2	Identifiler®					
	not tested	19,24	not tested	16,18	not tested	11,12
4sp	not tested	9,10	14,14	not tested	not tested	not tested
	9,13	11,13	not tested	13,17	12,14	not tested
	29,31.2	not tested	X,Y	10,12	21,23	not tested
	not tested	not tested	9,9.3	8,9	16,17	
BFLAQD	Identifiler®					
		19,24		16,18		11,12
4sp		9,10	14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
BFX9J2	PowerPlex® FUSION					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
BMYG93	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14		[12],14,16	18,23
	9,13	11,13		13,17	12,14	
	29,[31],31.2	11,15	X,Y	10,12	21,23	10,15
	5	19,28.2	9,9.3	8,9	16,17	
BX2G7F	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
CEMMRE	PowerPlex® FUSION					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	

TABLE 1

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

Item 4sp - STR Results

CJDYMB	PowerPlex® Fusion					
		11,18.3	19,24	11,11.3	16,18	11,12
	4sp	9,10		14	14,16	18,23
		9,13	11,13		13,17	12,14
		29,31.2	11,15	X,Y	10,12	21,23
	5		9,9.3	8,9	16,17	
CME3GJ	GlobalFiler™					
		11,18.3	19,24	11,11.3	16,18	11,12
	4sp	9,10		14	14,16	18,23
		9,13	11,13		13,17	12,14
		29,31.2	11,15	X,Y	10,12	21,23
		19,28.2	9,9.3	8,9	16,17	
CVP4XD	Identifiler®, GlobalFiler™					
		11,18.3	19,24	11,11.3	16,18	11,12
	4sp	9,10		14,14	14,16	18,23
		9,13	11,13		13,17	12,14
		29,31.2	11,15	X,Y	10,12	21,23
		19,28.2	9,9.3	8,9	16,17	
D3LLMA	PowerPlex® Fusion					
		11,18.3	19,24	11,11.3	16,18	11,12
	4sp	9,10		14	14,16	18,23
		9,13	11,13		13,17	12,14
		29,31.2	11,15	X,Y	10,12	21,23
	5		9,9.3	8,9	16,17	
D6ECZF	GlobalFiler™					
		11,18.3	19,24	11,11.3	16,18	11,12
	4sp	9,10		14	14,16	18,23
		9,13	11,13		13,17	12,14
		29,31.2	11,15	X,Y	10,12	21,23
		19,28.2	9,9.3	8,9	16,17	
D8KWMF	GlobalFiler™					
		11,18.3	17,19,24	11,11.3	16,18	11,12
	4sp	9,10		14	14,16	18,23
		9,13	11,13		13,17	12,14
		29,31.2	11,15	X,Y	10,12	21,23
		19,28.2	9,9.3	8,9	16,17	
DB4UC7	PowerPlex® 16					
				16,18		11,12
	4sp	9,10		14,14		
		9,13	11,13		13,17	
		29,31.2		X,Y	10,12	21,23
	5,5		9,9.3	8,9	16,17	

TABLE 1

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

Item 4sp - STR Results

DBJDV4	PowerPlex® Fusion						
		11,18.3	19,24	11,11.3	16,18	11,12	
	4sp	9,10					18,23
		9,13	11,13		13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23	
		5,5		9,9.3	8,9	16,17	
DBYEWK	Identifiler®						
			19,24		16,18	11,12	
	4sp	9,10					
		9,13	11,13		13,17	12,14	
		29,31.2		X,Y	10,12	21,23	
				9,9.3	8,9	16,17	
DJTKUR	GlobalFiler™						
		11,18.3	19,24	11,11.3	16,18	11,12	
	4sp	9,10					18,23
		9,13	11,13		13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23	
			19,28.2	9,9.3	8,9	16,17	
DJW8AK	GlobalFiler™						
		11,18.3	19,24	11,11.3	16,18	11,12	
	4sp	9,10					18,23
		9,13	11,13		13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23	
			19,28.2	9,9.3	8,9	16,17	
DKPXKY	PowerPlex® FUSION						
		11,18.3	19,24	11,11.3	16,18	11,12	
	4sp	9,10					18,23
		9,13	11,13		13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23	
		5,5		9,9.3	8,9	16,17	
DXQTB7	PowerPlex® Fusion 6C						
		11,18.3	19,24	11,11.3	16,18	11,12	
	4sp	9,10					18,23
		9,13	11,13		13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23	
		5,5	19,28.2	9,9.3	8,9	16,17	
E2TW28	PowerPlex® Fusion 6C						
		11,18.3	19,24	11,11.3	16,18	11,12	
	4sp	9,10					18,23
		9,13	11,13		13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23	
		5,5	19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 4sp - STR Results

E6AAMF	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10 14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2 11,15 X,Y 10,12 21,23					
		19,28.2	9,9.3	8,9	16,17	
EA3HP2	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10 14,14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2 11,15 X,Y 10,12 21,23 10,15					
	5,5		9,9.3	8,9	16,17	
EC6JPY	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10 14,14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2 11,15 X,Y 10,12 21,23 10,15					
	5,5		9,9.3	8,9	16,17	
EEUMH7	PowerPlex® FUSION-ESX, GlobalFiler™					
	11,18.3	19,24		16,18		11,12
4sp	9,10 14 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2 11,15 X,Y 10,12 21,23 10,15					
	5		9,9.3	8,9	16,17	
ELUZMF	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10 14,14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2 11,15 X,Y 10,12 21,23 10,15					
	5,5		9,9.3	8,9	16,17	
EPW38B	Identifiler® Plus					
	-	19,24	-	16,18	-	11,12
4sp	- 9,10 14 - -					
	9,13	11,13	-	13,17	12,14	-
	29,31.2 - X,Y 10,12 21,23 -					
	-	-	9,9.3	8,9	16,17	
ETD977	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10 14,14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2 11,15 X,Y 10,12 21,23					
		19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 4sp - STR Results

EYGCUJ	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10 14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5	19,28.2	9,9.3	8,9	16,17	
F6LDTR	Identifiler® +					
		19,24		16,18		11,12
4sp	9,10 14,14					
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
FAVU2F	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10 14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5	19,28.2	9,9.3	8,9	16,17	
FBUPTY	Identifiler® Plus					
		19,24		16,18		11,12
4sp	9,10 14,14					
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
FP8A7W	PowerPlex® FUSION					
	11,18.3	19,24	11,11.3	16,18	NOT TESTED	11,12
4sp	NOT TESTED 9,10 14,14 NOT TESTED 14,16 18,23					
	9,13	11,13	NOT TESTED	13,17	12,14	NOT TESTED
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	NOT TESTED	9,9.3	8,9	16,17	
FWAEYG	Identifiler®					
		19,24		16,18		11,12
4sp	9,10 14,14					
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
GC3972	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18	-	11,12
4sp	- 9,10 14,14 - 14,16 18,23					
	9,13	11,13	-	13,17	12,14	-
	29,31.2	11,15	X,Y	10,12	21,23	-
	-	19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 4sp - STR Results

GCHKTC	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10 14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2 11,15 X,Y 10,12 21,23					
		19,28.2	9,9.3	8,9	16,17	
GL3YPM	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10 14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2 11,15 X,Y 10,12 21,23					
		19,28.2	9,9.3	8,9	16,17	
GLQ683	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10 14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2 11,15 X,Y 10,12 21,23					
		19,28.2	9,9.3	8,9	16,17	
GQYPVY	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10 14,14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2 11,15 X,Y 10,12 21,23 10,15					
	5,5		9,9.3	8,9	16,17	
GTREH2	PowerPlex® 16					
				16,18		11,12
4sp	9,10 14,14 14,16 18,23					
	9,13	11,13		13,17		
	29,31.2 X,Y 10,12 21,23 10,15					
	5,5		9,9.3	8,9	16,17	
H7AJ89	PowerPlex® FUSION					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10 14,14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2 11,15 X,Y 10,12 21,23 10,15					
	5,5		9,9.3	8,9	16,17	
H9F4V9	PowerPlex® Fusion 6C					
	11,18.3	[17],19,24	11,11.3	16,18		11,12
4sp	9,10 14 [12],14,16 18,23					
	9,[11],13	11,13		13,17	12,14	
	29,31.2 11,15 X,Y 10,12 21,23 10,15					
	5	19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 4sp - STR Results

HFDW43	Identifiler® Plus	18,19,23,24		15,16,17,18		10,11,12
4sp		8,9,10,13	13,14			
		8,9,11,12,13	10,11,12,13	12,13,16,17	11,12,13,14	
		28,29,30,2,31.2	X,Y	9,10,11,12	20,21,22,23	
			8,9,9.3	8,9	15,16,17	
HG8PWZ	GlobalFiler™	11,18.3	19,24	11,11.3	16,18	11,12
4sp		9,10	14,14		14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
		19,28.2	9,9.3	8,9	16,17	
HUWNN4	PowerPlex® Fusion	11,18.3	19,24	11,11.3	16,18	11,12
4sp		9,10	14		14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
		5	9,9.3	8,9	16,17	10,15
HUXC83	Identifiler® Plus	NA	19,24	NA	16,18	NA
4sp		NA	9,10	14,14	NA	NA
		9,13	11,13	NA	13,17	12,14
		29,31.2	NA	X,Y	10,12	21,23
		NA	NA	9,9.3	8,9	16,17
HZ26GX	PowerPlex® Fusion	11,18.3	19,24	11,11.3	16,18	11,12
4sp		9,10	14		14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
		5	9,9.3	8,9	16,17	10,15
JBLPJ9	PowerPlex® Fusion 6C	11,18.3	19,24	11,11.3	16,18	11,12
4sp		9,10	14,14		14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
		5,5	19,28.2	9,9.3	8,9	16,17
JDL3Z8	Identifiler® Plus	19,24		16,18		11,12
4sp		9,10	14			
		9,13	11,13	13,17	12,14	
		29,31.2	X,Y	10,12	21,23	
			9,9.3	8,9	16,17	

TABLE 1

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

Item 4sp - STR Results

JEW7AP	Identifiler® Plus					
		19,24		16,18		11,12
4sp		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
JFB9K4	Identifiler® Plus					
		19,24		16,18		11,12
4sp		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
JLHUC8	GlobalFiler™					
	11,18.3,[-]	19,24,[-]	11,11.3,[-]	16,18,[-]		11,12,[-]
4sp		9,10,[-]	14,[-]		14,16,[-]	18,[22],23,[-]
	9,13,[-]	11,13,[-]		13,17,[-]	12,14,[-]	
	29,31.2,[-]	11,15,[-]	X,Y	10,12,[-]	21,23,[-]	
		19,28.2,[-]	9,9.3,[-]	8,9,[-]	16,17,[-]	
KHWEDY	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
KJ7MHD	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
KLUXFX	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
KRXZFR	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	

TABLE 1

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

Item 4sp - STR Results

LHTAEG	PowerPlex® Fusion 5C					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10		14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5		9,9.3	8,9	16,17	
LHTC4K	Identifiler® Plus					
		19,24		16,18		11,12
4sp	9,10		14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
LJ4ADW	Identifiler® Plus					
		19,24		16,18		11,12
4sp	9,10		14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
LKVACT	PowerPlex® ESI-16 fast, Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10		14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	
LUPEN3	Identifiler® Plus					
		18,19,23,24		15,16,17,18		10,11,12
4sp	9,10		13,14			
	8,9,11,12,13	10,11,12,13		12,13,16,17	11,12,13,14	
	28,29,30.2,31.2		X,Y	9,10,11,12	20,21,22,23	
			8,9,9.3	8,9	15,16,17	
LWB6RR	PowerPlex® FUSION					
	11,18.3	19,24	11,11.3	16,18	NT	11,12
4sp	NT	9,10	14,14	NT	14,16	18,23
	9,13	11,13	NT	13,17	12,14	NT
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	NT	9,9.3	8,9	16,17	
M64PF6	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10		14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 4sp - STR Results

M6JA2N	Identifiler® Plus					
		19,24		16,18		11,12
4sp		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
M7VT3K	Identifiler® Plus					
		19,24		16,18		11,12
4sp		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
ME6D83	Identifiler® Plus					
		17,18,19,23,24		15,16,17,18		10,11,12
4sp		8,9,10	13,14			
	8,9,12,13	10,11,12,13		12,13,16,17	11,12,13,14	
	28,29,30.2,31.2		X,Y	9,10,11,12	20,21,22,23	
			6,8,9,9.3	8,9	15,16,17,18	
MFKCN7	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5	19,28.2	9,9.3	8,9	16,17	
MW6694	Identifiler® Plus					
		19,24		16,18		11,12
4sp		9,10	14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
NB3WAY	Identifiler® Plus, MiniFiler					
		19,24		16,18		11,12
4sp		9,10	14			
	9,11,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
NH32GH	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	

TABLE 1

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

Item 4sp - STR Results

NPJPZQ	Identifiler® Plus					
		[17],19,24		16,18		11,12
	4sp	9,10,[11]	14			
		9,[11],13	11,13	13,17	12,14	
		[28],29,31.2		X,Y	10,12	21,23
			[6],9,9.3	8,9,[11]	16,17,[18]	
NT3QYJ	Identifiler® Plus					
		19,24		16,18		11,12
	4sp	9,10	14			
		9,13	11,13	13,17	12,14	
		29,31.2		X,Y	10,12	21,13
			9,9.3	8,9	16,17	
NW28AR	PowerPlex® Fusion					
		11,18.3	19,24	11,11.3	16,18	11,12
	4sp	9,10	14,14			18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
	5,5		9,9.3	8,9	16,17	
NW2ZB7	PowerPlex® Fusion					
		11,18.3	19,24	11,11.3	16,18	11,12
	4sp	9,10	14,14			18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
	5,5		9,9.3	8,9	16,17	
NZ29H2	Identifiler® Plus					
		17,18,19,23,24		15,16,17,18		10,11,12
	4sp	9,10,11,13	13,14			
		8,9,11,12,13	10,11,12,13	12,13,16,17	11,12,13,14,15	
		28,29,30.2,31,31.2		X,Y	9,10,11,12	20,21,22,23
			6,8,9,9.3	8,9,11	15,16,17	
P6CNGR	GlobalFiler™					
		11,18.3	19,24	11,11.3	16,18	11,12
	4sp	9,10	14,14			18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
		19,28.2	9,9.3	8,9	16,17	
P6DET2	PowerPlex® Fusion					
		11,18.3	19,24	11,11.3	16,18	11,12
	4sp	9,10	14,14			18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
	5,5		9,9.3	8,9	16,17	

TABLE 1

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

Item 4sp - STR Results

PN4R2Y	Identifiler® Plus, MiniFiler					
		19,24		16,18		11,12
4sp		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
PYN4DC	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5		9,9.3	8,9	16,17	
Q7KBDW	Identifiler® Plus					
		17,18,19,23,24		15,16,17,18		10,11,12
4sp		8,9,10	13,14			
	8,9,12,13	10,11,12,13		12,13,16,17	11,12,13,14	
	28,29,30.2,31.2		X,Y	9,10,11,12	20,21,22,23	
			6,8,9,9.3	8,9	15,16,17,18	
QFRXKC	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
QPPFDV	Identifiler® Plus					
	N/A	19,24	N/A	16,18	N/A	11,12
4sp	N/A	9,10	14,14	N/A	N/A	N/A
	9,13	11,13	N/A	13,17	12,14	N/A
	29,31.2	N/A	X,Y	10,12	21,23	N/A
	N/A	N/A	9,9.3	8,9	16,17	
RMMDQV	Identifiler® Plus					
		19,24		16,18		11,12
4sp		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
RNDH3E	Identifiler® Plus					
		17,18,19,23,24		15,16,17,18		10,11,12
4sp		9,10	13,14			
	8,9,11,12,13	10,11,12,13		12,13,16,17	11,12,13,14	
	28,29,30.2,31.2		X,Y	9,10,11,12	20,21,22,23	
			8,9,9.3	8,9	15,16,17	

TABLE 1

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

Item 4sp - STR Results

RXN28L	PowerPlex® Fusion						
	11,18.3	19,24	11,11.3	16,18	Not tested	11,12	
	4sp	Not tested	9,10	14	Not tested	14,16	18,23
		9,13	11,13	Not tested	13,17	12,14	Not tested
		29,31.2	11,15	X,Y	10,12	21,23	10,15
		5	Not tested	9,9.3	8,9	16,17	
RT8HEP	GlobalFiler™						
	11,18.3	19,24	11,11.3	16,18		11,12	
	4sp		9,10	14,14		14,16	18,23
		9,13	11,13		13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23	
			19,28.2	9,9.3	8,9	16,17	
TCGWAN	GlobalFiler™						
	11,18.3	19,24	11,11.3	16,18		11,12	
	4sp		9,10	14,14		14,16	18,23
		9,13	11,13		13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23	
			19,28.2	9,9.3	8,9	16,17	
TKDRCT	PowerPlex® Fusion						
	11,18.3	19,24	11,11.3	16,18		11,12	
	4sp		9,10	14		14,16	18,23
		9,13	11,13		13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23	10,15
		5		9,9.3	8,9	16,17	
TNUWAN	PowerPlex® Fusion 6C						
	11,18.3	19,24	11,11.3	16,18		11,12	
	4sp		9,10	14,14		14,16	18,23
		9,13	11,13		13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23	10,15
		5,5	19,28.2	9,9.3	8,9	16,17,18	
TP8LFM	Identifiler®						
		19,24		16,18		11,12	
	4sp		9,10	14,14			
		9,13	11,13		13,17	12,14	
		29,31.2		X,Y	10,12	21,23	
				9,9.3	8,9	16,17	
TUHGCI	PowerPlex® Fusion						
	11,18.3	19,24	11,11.3	16,18		11,12	
	4sp		9,10	14,14		14,16	18,23
		9,13	11,13		13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23	10,15
		5,5		9,9.3	8,9	16,17	

TABLE 1

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

Item 4sp - STR Results

TUYX7C	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10 14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
TXGXR	PowerPlex® ESX-17					
	11,18.3	19,24	11,11.3	16,18		
4sp	14 14,16 18,23					
		11,13		13,17	12,14	
	29,31.2	11,15	X,Y		21,23	
		19,28.2	9,9.3		16,17	
TYUMP6	PowerPlex® Fusion 5C					
	11,18.3	19,24	11,11.3	15,16,18		11,12
4sp	9,10 14,14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5,5		9,9.3	8,9	16,17	
TZP49T	Identifiler® Plus					
	NA	19,24	NA	16,18	NA	11,12
4sp	NA 9,10 14,14 NA NA NA NA					
	9,13	11,13	NA	13,17	12,14	NA
	29,31.2	NA	X,Y	10,12	21,23	NA
	NA	NA	9,9.3	8,9	16,17	
U3M77T	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10 14 14,16 18,23					
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5		9,9.3	8,9	16,17	
U3PTPT	Identifiler® Plus					
		19,24		16,18		11,12
4sp	9,10 14,14					
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
UAAWTN	Identifiler® Plus					
		19,24		16,18		11,12
4sp	9,10 14,14					
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	

TABLE 1

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

Item 4sp - STR Results

UB3M6U	Identifiler® Plus	17,18,19,23,24		15,16,17,18		10,11,12,13
4sp		9,10,11,13	13,14			
		8,9,11,12,13	10,11,12,13	12,13,16,17,19	11,12,13,14	
		28,29,30.2,31,31.2	X,Y	9,10,11,12	20,21,22,23	
			6,8,9,9.3	8,9,11	15,16,17,18	
UB3PN8	GlobalFiler™					
		11,18.3	19,24	11,11.3	16,18	11,12
4sp		9,10	14,14		14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
			19,28.2	9,9.3	8,9	16,17
UB4F2G	PowerPlex® 21					
		11,18.3	19,24		16,18	11,12
4sp		12,19	9,10	14		18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
		5,8	9,9.3	8,9	16,17	10,15
VFD6TP	PowerPlex® Fusion					
		11,18.3	19,24	11,11.3	16,18	11,12
4sp		9,10	14,14		14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
		5,5	9,9.3	8,9	16,17	10,15
VHX6VQ	GlobalFiler™					
		11,18.3	19,24	11,11.3	16,18	11,12
4sp		9,10	14		14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
			19,28.2	9,9.3	8,9	16,17
VLGYXJ	PowerPlex® Fusion 6C					
		11,18.3	19,24	11,11.3	16,18	11,12
4sp		9,10	14,14		14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
		5,5	19,28.2	9,9.3	8,9	16,17
VTXKWN	PowerPlex® FUSION					
		11,18.3	19,24	11,11.3	16,18	11,12
4sp		9,10	14		14,16	18,23
		9,13	11,13	13,17	12,14	
		29,31.2	11,15	X,Y	10,12	21,23
		5	9,9.3	8,9	16,17	10,15

TABLE 1

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

Item 4sp - STR Results

VW2B6P	Identifiler® Plus, MiniFiler					
		19,24		16,18		11,12
4sp		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
WJMTQR	Identifiler® Plus					
		18,19,23,24		15,16,17,18		10,11,12
4sp		9,10	13,14			
	8,9,11,12,13	10,11,12,13		12,13,16,17	11,12,13,14	
	28,29,30.2,31.2		X,Y	9,10,11,12	20,21,22,23	
			6,9,9.3	8,9,11	15,16,17,18	
WK4UTT	Identifiler® Plus					
	-	19,24	-	16,18	-	11,12
4sp	-	9,10	14	-	-	-
	9,13	11,13	-	13,17	12,14	-
	29,31.2	-	X,Y	10,12	21,23	-
	-	-	9,9.3	8,9	16,17	
WQ8VTM	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
WX6PRL	GlobalFiler™					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp		9,10	14,14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
WY3ZK4	Identifiler®					
		19,24		16,18		11,12
4sp		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
X8BPZM	Identifiler® Plus					
		19,24		16,18		11,12
4sp		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	

TABLE 1

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

Item 4sp - STR Results

X96HV7	GlobalFiler™					
		11,18.3	19,24	11,11.3	16,18	11,12
	4sp	9,10		14	14,16	18,23
		9,13	11,13		13,17	12,14
		29,31.2	11,15	X,Y	10,12	21,23
			19,28.2	9,9.3	8,9	16,17
XAB3GK	GlobalFiler™					
		11,18.3	[17],19,24	11,11.3	16,18	11,12
	4sp	9,10		14	14,16	18,23
		9,13	11,13		13,17	12,14
		29,31.2	11,15,[16]	X,Y	10,12	21,23
			19,28.2	9,9.3	8,9	16,17
XE7UPH	PowerPlex® Fusion					
		11,18.3	19,24	11,11.3	16,18	11,12
	4sp	9,10		14,14	14,16	18,23
		9,13	11,13		13,17	12,14
		29,31.2	11,15	X,Y	10,12	21,23
		5,5		9,9.3	8,9	16,17
XJK68R	NGM SElect					
		11,18.3	19,24	11,11.3	16,18	
	4sp			14,14	14,16	18,23
			11,13		13,17	12,14
		29,31.2	11,15	X,Y	10,12	21,23
			19,28.2	9,9.3		16,17
XWCWPB	Identifiler® Plus					
			19,24		16,18	11,12
	4sp	9,10		14,14		
		9,13	11,13		13,17	12,14
		29,31.2		X,Y	10,12	21,23
				9,9.3	8,9	16,17
XXL7FM	PowerPlex® Fusion 6C					
		11,18.3	19,24	11,11.3	16,18	11,12
	4sp	9,10		14,14	14,16	18,23
		9,13	11,13		13,17	12,14
		29,31.2	11,15	X,Y	10,12	21,23
		5,5	19,28.2	9,9.3	8,9	16,17
XZQUYJ	Identifiler® Plus					
			19,24		16,18	11,12
	4sp	9,10		14,14		
		9,13	11,13		13,17	12,14
		29,31.2		X,Y	10,12	21,23
				9,9.3	8,9	16,17

TABLE 1

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

Item 4sp - STR Results

Y87R3W	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10					
	9,13	11,13		13,17	14,16	18,23
	29,31.2	11,15	X,Y	10,12	12,14	10,15
	5	19,28.2	9,9.3	8,9	21,23	16,17
YDTDEP	Identifiler® Plus					
		19,24		16,18		11,12
4sp	9,10					
	9,13	11,13		13,17	14,16	18,23
	29,31.2		X,Y	10,12	12,14	10,15
			9,9.3	8,9	21,23	16,17
YEN3GX	PowerPlex® Fusion 6C					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10					
	9,13	11,13		13,17	14,16	18,23
	29,31.2	11,15	X,Y	10,12	12,14	10,15
	5	19,28.2	9,9.3	8,9	21,23	16,17
YKDFHL	Identifiler® ID+					
		19,24		16,18		11,12
4sp	9,10					
	9,13	11,13	14,14	13,17	14,16	18,23
	29,31.2		X,Y	10,12	12,14	10,15
			9,9.3	8,9	21,23	16,17
YMZCNQ	PowerPlex® Fusion					
	11,18.3	19,24	11,11.3	16,18		11,12
4sp	9,10					
	9,13	11,13	14,14	13,17	14,16	18,23
	29,31.2	11,15	X,Y	10,12	12,14	10,15
	5,5		9,9.3	8,9	21,23	16,17
YTM6VJ	Identifiler®, Identifiler Plus					
		19,24		16,18		11,12
4sp	9,10					
	9,13	11,13	14,14	13,17	14,16	18,23
	29,31.2		X,Y	10,12	12,14	10,15
			9,9.3	8,9	21,23	16,17
Z3U7UP	Identifiler® Plus					
	-	19,24	-	16,18	-	11,12
4sp	9,10					
	9,13	11,13	14	-	-	-
	29,31.2	-	X,Y	10,12	12,14	-
	-	-	9,9.3	8,9	21,23	-
					16,17	

TABLE 1

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

Item 4sp - STR Results

ZGMZ3A	Identifiler® Plus	19,24		16,18		11,12
4sp		9,10	14,14			
	9,13	11,13		13,17	12,14	
	29,31.2		X,Y	10,12	21,23	
			9,9.3	8,9	16,17	
ZL47Z6	GlobalFiler™	19,24	11,11.3	16,18		11,12
4sp		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	
		19,28.2	9,9.3	8,9	16,17	
ZVRWMX	PowerPlex® Fusion 6C	19,24	11,11.3	16,18		11,12
4sp		9,10	14		14,16	18,23
	9,13	11,13		13,17	12,14	
	29,31.2	11,15	X,Y	10,12	21,23	10,15
	5	19,28.2	9,9.3	8,9	16,17	

YSTR Amplification Kit(s) & Results

TABLE 2

WebCode	Amplification Kit										
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437	
Item	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	
	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel
Item 1 - YSTR Results											
238Z86	PowerPlex® Fusion										
1	10										
23MG6J	GlobalFiler™										
1	10										
	2										
2B26YK	PowerPlex® Y 23										
1	15	13,15	12	29	21	10	11	14	15		
	10	11	22		16	17		21			
	10	12	18	16			21	11	11		
2DL8RC	Yfiler®, PowerPlex® Fusion Fusion 6C										
1	15	13,15	12	29	21	10	11	14	15		
	10	11	22		16	17					
			18	16			21		11		
2G69NJ	GlobalFiler™ Express										
1	NT	NT	NT	NT	NT	NT	10	NT	NT	NT	
	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	2										
2KLEME	Yfiler®										
1	15	13,15	12	29	21	10	11	14	15		
	10	11	22		16	17					
							21		11		
2TYK4H	GlobalFiler™										
1	10										
	2										
3C6HVC	PowerPlex® Fusion										
1	10										
3D4KPN	Yfiler®										
1	-	15	13,15	12	29	21	10	11	14	15	
	10	11	22	-	16	17	-	-	-	-	
	-	-	-	-	-	-	-	21	-	11	
										-	
3PFNER											
1	10										
	2										
4DWTBC	Yfiler®, Investigator® 24plex										
1	15	13,15	12	29	21	10	11	14	15		
	10	11	22		16	17					
							21		11		

TABLE 2

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

Item 1 - YSTR Results

687KNX	GlobalFiler™										
1							10				
											2
6AC7DH	Yfiler®										
1		15	13,15	12	29	21	10	11	14	15	
		10	11	22		16	17		21		11
6ATE7J	Yfiler®										
1		15	13,15	12	29	21	10	11	14	15	
		10	11	22		16	17		21		11
7MW6GQ	PowerPlex® Fusion 6C										
1							10				
				18	16						
7XFJH8	PowerPlex® Fusion										
1							10				
89TZQ6	PowerPlex® Fusion										
1							10				
8EGNKA											
1							10				
											2
8HX4WM											
1							10				
											2
8MVMYL	GlobalFiler™										
1							10				
											2
8NNHJ9	GlobalFiler™										
1							10				
											2
8THFBK	Yfiler®, PowerPlex® Fusion 6C										
1		15	13,15	12	29	21	10	11	14	15	
		10	11	22		16	17				
				18	16			21		11	
8XTDX8	Yfiler®										
1		15	13,15	12	29	21	10	11	14	15	
		10	11	22		16	17				
								21		11	

TABLE 2

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

Item 1 - YSTR Results

9DN9Z7	GlobalFiler™ Express									
1	10									
	2									
9HXDKD	GlobalFiler™ Express									
1	10									
	2									
A93RT6	Yfiler®									
1	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
								21	11	
AE6Y99	Yfiler®									
1	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
								21	11	2
AE7VJ4	PowerPlex® Fusion									
1	10									
AJ49P2	GlobalFiler™									
1	10									
	2									
AMMALA	Yfiler®									
1	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
								21	11	
ARUVCR	GlobalFiler™									
1	10									
	2									
ATCMNW	Yfiler®									
1	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
								21	11	2
B2KWC2	Yfiler®, PowerPlex® Fusion Fusion 6c									
1	not tested	15	13,15	12	29	21	10	11	14	15
	10	11	22	not tested	16	17	not tested	not tested	not tested	not tested
	not tested	not tested	not tested	18	16	not tested	not tested	21	not tested	11
	not tested									
BFLAQD	Yfiler®									
1	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
								21	11	
BFX9J2	PowerPlex® Fusion									
1	10									

TABLE 2

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

Item 1 - YSTR Results

BMYG93	Yfiler®, PowerPlex® Fusion 6C										
		15	13,15	12	29	21	10	11	14	15	
	1	10	11	22		16	17				
				18	16			21		11	
BX2G7F	PowerPlex® Y 23										
		15	13,15	12	29	21	10	11	14	15	
	1	10	11	22		16	17		21		
		10	12	18	16			21	11	11	
C4K9M9											
	1						10				
CEMMRE	PowerPlex® Y Y-23										
		15	13,15	12	29	21	10	11	14	15	
	1	10	11	22		16	17		21		
		10	12	18	16			21	11	11	
CJDYMB	Yfiler®										
		15	13,15	12	29	21	10	11	14	15	
	1	10	11	22		16	17				
								21		11	
CME3GJ	GlobalFiler™										
	1						10				
											2
CVP4XD											
	1						10				
				18	16						
D3LLMA	Yfiler®										
		15	13,15	12	29	21	10	11	14	15	
	1	10	11	22		16	17				
								21		11	
D6ECZF	PowerPlex® Y 23, GlobalFiler™										
		15	13,15	12	29	21	10	11	14	15	
	1	10	11	22		16	17		21		
		10	12	18	16			21	11	11	2
D8KWMF	GlobalFiler™										
	1						10				
											2
DB4UC7	Investigator® 24plex										
	1						10				
DBJDV4	PowerPlex® Y 23, GlobalFiler™										
		15	13,15	12	29	21	10	11	14	15	
	1	10	11	22		16	17		21		
		10	12	18	16			21	11	11	2

TABLE 2

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

Item 1 - YSTR Results

DJTKUR	Yfiler® Plus, GlobalFiler™										
	36,39	15	13,15	12	29	21	10	11	14	15	
1	10	11	22	30	16	17	10	21		38	
		10		18	16		19	21		11	2
DJW8AK	Investigator® 24plex										
							10				
1											
DKPXKY	PowerPlex® Fusion										
							10				
1											
DXQTB7	PowerPlex® Y 23										
		15	13,15	12	29	21	10	11	14	15	
1	10	11	22		16	17		21			
		10	12	18	16			21	11	11	
E2TW28	PowerPlex® Y 23										
		15	13,15	12	29	21	10	11	14	15	
1	10	11	22		16	17		21			
		10	12	18	16			21	11	11	
E6AAMF	GlobalFiler™										
							10				
1											
											2
EA3HP2	PowerPlex® Fusion										
							10				
1											
EC6JPY	PowerPlex® Fusion										
							10				
1											
EEUMH7	PowerPlex® Y 23										
		15	13,15	12	29	21	10	11	14	15	
1	10	11	22		16	17		21			
		10	12	18	16			21	11	11	
EFNC68	Yfiler®, PowerPlex® Fusion 6C										
		15	13,15	12	29	21	10	11	14	15	
1	10	11	22		16	17					
				18	16			21		11	
ELUZMF	PowerPlex® Y 23										
		15	13,15	12	29	21	10	11	14	15	
1	10	11	22		16	17		21			
		10	12	18	16			21	11	11	
EPW38B	Yfiler®										
	-	15	13,15	12	29	21	10	11	14	15	
1	10	11	22	-	16	17	-	-	-	-	
	-	-	-	-	-	-	-	21	-	11	-

TABLE 2

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

Item 1 - YSTR Results

EYGCUJ	Yfiler®, PowerPlex® Fusion Fusion 6C										
		15	13,15	12	29	21	10	11	14	15	
1	10	11	22		16	17					
				18	16			21		11	
FAVU2F	PowerPlex® Fusion 6C										
							10				
1				18	16						
FBUPTY	PowerPlex® Y 23										
		15	13,15	12	29	21	10	11	14	15	
1	10	11	22		16	17		21			
		10	12	18	16			21	11	11	
FP8A7W	PowerPlex® Fusion										
	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	10	NOT TESTED	NOT TESTED	NOT TESTED	
1	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	
	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED
GC3972											
							10				
1											2
GCHKTC	GlobalFiler™										
							10				
1											2
GL3YPM	Yfiler®, GlobalFiler™										
		15	13,15	12	29	21	10	11	14	15	
1	10	11	22		16	17					
								21		11	2
GLQ683	Yfiler® Plus, GlobalFiler™										
	36,39	15	13,15	12	29	21	10	11	14	15	
1	10	11	22	30	16	17	10	21		38	
		10		18	16		19	21		11	2
GQYPVY	PowerPlex® Fusion										
							10				
1											
GTREH2	GlobalFiler™, PowerPlex® Fusion 6C										
							10				
1				18	16						2
H7AJ89	PowerPlex® Y 23										
		15	13,15	12	29	21	10	11	14	15	
1	10	11	22		16	17		21			
		10	12	18	16			21	11	11	

TABLE 2

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

Item 1 - YSTR Results

H9F4V9	Yfiler®, PowerPlex® Fusion Fusion 6C											
1	10	15	11	13,15	12	29	21	10	11	14	15	
					18	16			21		11	
HUWNN4	Yfiler®											
1	10	15	11	13,15	12	29	21	10	11	14	15	
									21		11	
HZ26GX	Yfiler®											
1	10	15	11	13,15	12	29	21	10	11	14	15	
									21		11	
J8HZXR	Yfiler®											
1	10	15	11	13,15	12	29	21	10	11	14	15	
									21		11	
JBLPJ9	Yfiler®, PowerPlex® Fusion 6C											
1	10	15	11	13,15	12	29	21	10	11	14	15	
					18	16			21		11	
JDL3Z8	Yfiler®											
1	10	15	11	13,15	12	29	21	10	11	14	15	
									21		11	
JLHUC8	GlobalFiler™											
1											10	
											2	
JTEW9R	Yfiler®											
1	10	15	11	13,15	12	29	21	10	11	14	15	
									21		11	
JWZJ6K	PowerPlex® Fusion											
1											10	
JZW8LR	Yfiler®											
1	10	15	11	13,15	12	29	21	10	11	14	15	
									21		11	
KHWEDY	Yfiler®, GlobalFiler™											
1	10	15	11	13,15	12	29	21	10	11	14	15	
									21		11	2
KJ7MHD	GlobalFiler™											
1											10	
											2	

TABLE 2

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

Item 1 - YSTR Results

KLUXFX											
1	10										
KRXZFR	PowerPlex® Fusion										
1	10										
LHTAEG	PowerPlex® Fusion 5C										
1	10										
LHTC4K	Yfiler®										
1	15	13,15	12	29	21	10	11	14	15		
	10	11	22	16	17						
							21		11		
LKVACT	PowerPlex® Y 23, PowerPlex® Fusion										
1	15	13,15	12	29	21	10	11	14	15		
	10	11	22	16	17		21				
	10	12	18	16			21	11	11		
LWB6RR	PowerPlex® Y Y23										
1	NT	15	13,15	12	29	21	10	11	14	15	
	10	11	22	NT	16	17	NT	21	NT	NT	
	NT	10	12	18	16	NT	NT	21	11	11	NT
M64PF6	GlobalFiler™										
1	10										
M6JA2N	PowerPlex® Y 23										
1	15	13,15	12	29	21	10	11	14	15		
	10	11	22	16	17		21				
	10	12	18	16			21	11	11		
M7VT3K	Yfiler®										
1	15	13,15	12	29	21	10	11	14	15		
	10	11	22	16	17						
							21		11		
MFKN7	Yfiler®, PowerPlex® Fusion 6C										
1	15	13,15	12	29	21	10	11	14	15		
	10	11	22	16	17						
			18	16			21		11		
MW6694	Yfiler®										
1	15	13,15	12	29	21	10	11	14	15		
	10	11	22	16	17						
							21		11		
NB3WAY	PowerPlex® Y 23										
1	15	13,15	12	29	21	10	11	14	15		
	10	11	22	16	17		21				
	10	12	18	16			21	11	11		

TABLE 2

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

Item 1 - YSTR Results

NH32GH	Yfiler®	15	13,15	12	29	21	10	11	14	15	
	1	10	11	22	16	17					
								21		11	2
NT3QYJ	Yfiler®	15	13,15	12	29	21	10	11	14	15	
	1	10	11	22	16	17					
								21		11	
NW28AR	PowerPlex® Fusion						10				
	1										
NW2ZB7	PowerPlex® Y 23	15	13,15	12	29	21	10	11	14	15	
	1	10	11	22	16	17		21			
		10	12	18	16			21	11	11	
P6CNGR	GlobalFiler™ Express						10				
	1										2
P6DET2	PowerPlex® Y 23	15	13,15	12	29	21	10	11	14	15	
	1	10	11	22	16	17		21			
		10	12	18	16			21	11	11	
PN4R2Y	PowerPlex® Y 23, GlobalFiler™	15	13,15	12	29	21	10	11	14	15	
	1	10	11	22	16	17		21			
		10	12	18	16			21	11	11	2
PYN4DC	PowerPlex® Fusion						10				
	1										
QFRXKC	PowerPlex® Y 23, GlobalFiler™	15	13,15	12	29	21	10	11	14	15	
	1	10	11	22	16	17		21			
		10	12	18	16			21	11	11	2
QPFPDV		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RNX28L	PowerPlex® Fusion						10				
	1										
RT8HEP	GlobalFiler™ Express						10				
	1										2

TABLE 2

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

Item 1 - YSTR Results

TCGWAN	GlobalFiler™											
1	10										2	
TKDRCT	Yfiler®											
1	10	15	13,15	12	29	21	10	11	14	15	21	11
TNUWAN	GlobalFiler™											
1	10										2	
TUHGCI	PowerPlex® Fusion											
1	10											
TUYX7C	PowerPlex® Y 23, GlobalFiler™											
1	10	15	13,15	12	29	21	10	11	14	15	21	11
		10	12	18	16			21	11	11		2
TXGXR	PowerPlex® Y 23											
1	10	15	13,15	12	29	21	10	11	14	15	21	
		10	12	18	16			21	11	11		
TYQ3ZF	Yfiler®											
1	10	15	13,15	12	29	21	10	11	14	15	21	11
TYUMP6												
1	10											
				18	16							
TZP49T												
1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	Na	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
U3M77T	Yfiler®											
1	10	15	13,15	12	29	21	10	11	14	15	21	11
UAAWTN	Yfiler®, GlobalFiler™											
1	10	15	13,15	12	29	21	10	11	14	15	21	11
		10	12	18	16			21	11	11		2
UB3M6U	PowerPlex® Y 23											
1	10	15	13,15	12	29	21	10	11	14	15	21	
		10	12	18	16			21	11	11		

TABLE 2

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

Item 1 - YSTR Results

UB3PN8	GlobalFiler™										
1											10
											2
VFD6TP	PowerPlex® Fusion										
1											10
VHX6VQ	GlobalFiler™										
1											10
											2
VLGYXJ	Yfiler®, PowerPlex® Fusion 6C										
1	10	15	13,15	12	29	21	10	11	14	15	
		11	22		16	17					
				18	16			21		11	
VTXKWN	PowerPlex® Fusion										
1	10	15	13,15	12	29	21	10	11	14	15	
		11	22		16	17		21			
		10	12	18	16			21	11	11	
VW2B6P	PowerPlex® Y 23, GlobalFiler™, PowerPlex® Fusion 5C, Investigator® 24plex										
1	10	15	13,15	12	29	21	10	11	14	15	
		11	22		16	17		21			
		10	12	18	16			21	11	11	2
WJMTQR	PowerPlex® Y 23										
1	10	15	13,15	12	29	21	10	11	14	15	
		11	22		16	17		21			
		10	12	18	16			21	11	11	
WK4UTT	Yfiler® Y-STR										
1	10	15	13,15	12	29	21	10	11	14	15	
		11	22	-	16	17	-	-	-	-	
		-	-	-	-	-	-	21	-	11	-
WQ8VTM											
1											10
WX6PRL	PowerPlex® Fusion 5C										
1											10
X8BPZM	GlobalFiler™										
1											10
											2
X96HV7	Yfiler® Plus, GlobalFiler™										
1	36,39	15	13,15	12	29	21	10	11	14	15	
	10	11	22	30	16	17	10	21		38	
		10		18	16		19	21		11	2

TABLE 2

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

Item 1 - YSTR Results

XAB3GK	Yfiler®	15	13,15	12	29	21	10	11	14	15
	1	10	11	22	16	17				
								21	11	2
XE7UPH	PowerPlex® Fusion						10			
	1									
XJK68R	PowerPlex® Y 23	15	13,15	12	29	21	10	11	14	15
	1	10	11	22	16	17		21		
		10	12	18	16			21	11	11
XWCWPB	Yfiler®	15	13,15	12	29	21	10	11	14	15
	1	10	11	22	16	17				
								21	11	
XXL7FM	PowerPlex® Y 23	15	13,15	12	29	21	10	11	14	15
	1	10	11	22	16	17		21		
		10	12	18	16			21	11	11
XZQUYJ	PowerPlex® Fusion						10			
	1									
Y87R3W	PowerPlex® Fusion 6C						10			
	1									
				18	16					
YDTDEP	PowerPlex® Y 23	15	13,15	12	29	21	10	11	14	15
	1	10	11	22	16	17		21		
		10	12	18	16			21	11	11
YEN3GX	PowerPlex® Fusion Fusion 6C						10			
	1									
				18	16					
YKDFHL	PowerPlex® Y 23	15	13,15	12	29	21	10	11	14	15
	1	10	11	22	16	17		21		
		10	12	18	16			21	11	11
YKR74B	Yfiler®	15	13,15	12	29	21	10	11	14	15
	1	10	11	22	16	17				
								21	11	
YMZCNQ	PowerPlex® Y 23	15	13,15	12	29	21	10	11	14	15
	1	10	11	22	16	17		21		
		10	12	18	16			21	11	11

TABLE 2

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

Item 1 - YSTR Results

YTM6VJ	PowerPlex® Fusion Fusion 6C									
1	10									
	18 16									
Z3U7UP	Yfiler®									
1	-	15	13,15	12	29	21	10	11	14	15
	10	11	22	-	16	17	-	-	-	-
	-	-	-	-	-	-	-	21	-	11
ZL47Z6	Yfiler® Plus, GlobalFiler™									
1	36,39	15	13,15	12	29	21	10	11	14	15
	10	11	22	30	16	17	10	21		38
		10		18	16		19	21		11
ZVRWMX	PowerPlex® Fusion 6C									
1	10									
	18 16									

TABLE 2

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

Item 2 - YSTR Results

238Z86	PowerPlex® Fusion									
2	10									
23MG6J	GlobalFiler™									
2	10									
	2									
2B26YK	PowerPlex® Y 23									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20		14	18	23			
	12	11	20	17			21	11	11	
2DL8RC	Yfiler®, PowerPlex® Fusion Fusion 6C									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20		14	18				
			20	17			21		11	
2G69NJ	GlobalFiler™ Express									
2	NT	NT	NT	NT	NT	NT	10	NT	NT	NT
	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
										2
2KLEME	Yfiler®									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20		14	18				
							21		11	
2TYK4H	GlobalFiler™									
2	10									
	2									
3C6HVC	PowerPlex® Fusion									
2	10									
3D4KPN	Yfiler®									
2	-	15	14,17	13	30	21	10	11	14	15
	11	13	20	-	14	18	-	-	-	-
	-	-	-	-	-	-	-	21	-	11
3PFNER										
2	10									
	2									
4DWTBC	Yfiler®, Investigator® 24plex									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20		14	18				
							21		11	
687KNX	GlobalFiler™									
2	10									
	2									

TABLE 2

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

Item 2 - YSTR Results

6AC7DH	Yfiler®	15	14,17	13	30	21	10	11	14	15
2		11	13	20	14	18				
								21		11
6ATE7J	Yfiler®	15	14,17	13	30	21	10	11	14	15
2		11	13	20	14	18				
								21		11
7MW6GQ	PowerPlex® Fusion 6C						10			
2										
			20	17						
7XFJH8	PowerPlex® Fusion						10			
2										
89TZQ6	PowerPlex® Fusion						10			
2										
8EGNKA							10			
2										2
8HX4WM							10			
2										2
8MVMYL	GlobalFiler™						10			
2										2
8NNHJ9	GlobalFiler™						10			
2										2
8THFBK	Yfiler®, PowerPlex® Fusion 6C	15	14,17	13	30	21	10	11	14	15
2		11	13	20	14	18				
				20	17			21		11
8XTDX8	Yfiler®	15	14,17	13	30	21	10	11	14	15
2		11	13	20	14	18				
								21		11
9DN9Z7	GlobalFiler™ Express						10			
2										2

TABLE 2

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

Item 2 - YSTR Results

9HXDKD	GlobalFiler™ Express									
2	10									
A93RT6	Yfiler®									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18		21		11	2
AE6Y99	Yfiler®									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18		21		11	2
AE7VJ4	PowerPlex® Fusion									
2	10									
AJ49P2	GlobalFiler™									
2	10									
AMMALA	Yfiler®									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18		21		11	
ARUVCR	GlobalFiler™									
2	10									
ATCMNW	Yfiler®									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18		21		11	2
B2KWC2	Yfiler®, PowerPlex® Fusion Fusion 6c									
2	not tested	15	14,17	13	30	21	10	11	14	15
	11	13	20	not tested	14	18	not tested	not tested	not tested	not tested
	not tested	not tested	not tested	20	17	not tested	not tested	21	not tested	11
BFLAQD	Yfiler®									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18		21		11	
BFX9J2	PowerPlex® Fusion									
2	10									
BMYG93	Yfiler®, PowerPlex® Fusion 6C									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18		21		11	
			20	17			21		11	

TABLE 2

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

Item 2 - YSTR Results

BX2G7F	PowerPlex® Y 23									
	15	14,17	13	30	21	10	11	14	15	
2	11	13	20	14	18		23			
	12	11	20	17			21	11	11	
C4K9M9										
2	10									
CEMMRE	PowerPlex® Y Y23									
	15	14,17	13	30	21	10	11	14	15	
2	11	13	20	14	18		23			
	12	11	20	17			21	11	11	
CJDYMB	Yfiler®									
	15	14,17	13	30	21	10	11	14	15	
2	11	13	20	14	18					
							21		11	
CME3GJ										
2	2									
	10									
CVP4XD										
2	10									
	20 17									
D3LLMA	Yfiler®									
	15	14,17	13	30	21	10	11	14	15	
2	11	13	20	14	18					
							21		11	
D6ECZF	PowerPlex® Y 23, GlobalFiler™									
	15	14,17	13	30	21	10	11	14	15	
2	11	13	20	14	18		23			
	12	11	20	17			21	11	11	2
D8KWMF	GlobalFiler™									
2	10									
	2									
DB4UC7	Investigator® 24plex									
2	10									
DBJDV4	PowerPlex® Y 23, GlobalFiler™, Investigator® 24plex									
	15	14,17	13	30	21	10	11	14	15	
2	11	13	20	14	18		23			
	12	11	20	17			21	11	11	2
DJTKUR	Yfiler® Plus, GlobalFiler™									
	37,38	15	14,17	13	30	21	10	11	14	15
2	11	13	20	34	14	18	9	23		41
	12		20	17			16	21	11	2

TABLE 2

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

Item 2 - YSTR Results

DJW8AK	Investigator® 24plex									
2	10									
DKPXKY	PowerPlex® Fusion									
2	10									
DXQTB7	PowerPlex® Y 23									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20		14	18		23		
	12	11	20	17				21	11	11
E2TW28	PowerPlex® Y 23									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20		14	18		23		
	12	11	20	17				21	11	11
E6AAMF	GlobalFiler™									
2	10									
	2									
EA3HP2	PowerPlex® Fusion									
2	10									
EC6JPY	PowerPlex® Fusion									
2	10									
EEUMH7	PowerPlex® Y 23									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20		14	18		23		
	12	11	20	17				21	11	11
EFNC68	Yfiler®, PowerPlex® Fusion 6C									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20		14	18				
			20	17				21		11
ELUZMF	PowerPlex® Y 23									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20		14	18		23		
	12	11	20	17				21	11	11
EPW38B	Yfiler®									
2	-	15	14,17	13	30	21	10	11	14	15
	11	13	20	-	14	18	-	-	-	-
	-	-	-	-	-	-	-	21	-	11
EYGCUI	Yfiler®, PowerPlex® Fusion Fusion 6C									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20		14	18				
			20	17				21		11

TABLE 2

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

Item 2 - YSTR Results

FAVU2F	PowerPlex® Fusion 6C										
2	10										
	20 17										
FBUPTY	PowerPlex® Y 23										
2	15	14,17	13	30	21	10	11	14	15		
	11	13	20	14	18	23					
	12	11	20	17	21	11	11				
FP8A7W	PowerPlex® Fusion										
2	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	10	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED
	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED
	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED
GC3972	10										
2	2										
GCHKTC	GlobalFiler™										
2	10										
	2										
GL3YPM	Yfiler®, GlobalFiler™										
2	15	14,17	13	30	21	10	11	14	15		
	11	13	20	14	18						
							21	11	2		
GLQ683	Yfiler® Plus, GlobalFiler™										
2	37,38	15	14,17	13	30	21	10	11	14	15	
	11	13	20	34	14	18	9	23	41		
				12	20	17	16	21	11	2	
GQYPVY	PowerPlex® Fusion										
2	10										
GTREH2	GlobalFiler™, PowerPlex® Fusion 6C										
2	10										
	20 17 2										
H7AJ89	PowerPlex® Y 23										
2	15	14,17	13	30	21	10	11	14	15		
	11	13	20	14	18	23					
	12	11	20	17	21	11	11				
H9F4V9	Yfiler®, PowerPlex® Fusion Fusion 6C										
2	15	14,17	13	30	21	10	11	14	15		
	11	13	20	14	18						
				20	17	21	11				

TABLE 2

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

Item 2 - YSTR Results

HUWNN4	Yfiler®	15	14,17	13	30	21	10	11	14	15
2	11	13	20		14	18				
								21		11
HZ26GX	Yfiler®	15	14,17	13	30	21	10	11	14	15
2	11	13	20		14	18				
								21		11
J8HZXR	Yfiler®	15	14,17	13	30	21	10	11	14	15
2	11	13	20		14	18				
								21		11
JBLPJ9	Yfiler®, PowerPlex® Fusion 6C	15	14,17	13	30	21	10	11	14	15
2	11	13	20		14	18				
			20	17				21		11
JDL3Z8	Yfiler®	15	14,17	13	30	21	10	11	14	15
2	11	13	20		14	18				
								21		11
JLHUC8	GlobalFiler™						10			
2										2
JTEW9R	Yfiler®	15	14,17	13	30	21	10	11	14	15
2	11	13	20		14	18				
								21		11
JWZJ6K	PowerPlex® Fusion						10			
2										
JZW8LR	Yfiler®	15	14,17	13	30	21	10	11	14	15
2	11	13	20		14	18				
								21		11
KHWEDY	Yfiler®, GlobalFiler™	15	14,17	13	30	21	10	11	14	15
2	11	13	20		14	18				
								21	11	2
KJ7MHD	GlobalFiler™						10			
2										2
KLUXFX							10			
2										2

TABLE 2

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

Item 2 - YSTR Results

KRXZFR	PowerPlex® Fusion									
2	10									
LHTAEG	PowerPlex® Fusion 5C									
2	10									
LHTC4K	Yfiler®									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18					
							21		11	
LKVACT	PowerPlex® Y Y23									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18		23			
	12	11	20	17			21	11	11	
LWB6RR	PowerPlex® Y Y23									
2	NT	15	14,17	13	30	21	10	11	14	15
	11	13	20	NT	14	18	NT	23	NT	NT
	NT	12	11	20	17	NT	NT	21	11	11
M64PF6	GlobalFiler™									
2	10									
	2									
M6JA2N	PowerPlex® Y 23									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18		23			
	12	11	20	17			21	11	11	
M7VT3K	Yfiler®									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18					
							21		11	
MFKCN7	Yfiler®, PowerPlex® Fusion 6C									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18					
			20	17			21		11	
MW6694	Yfiler®									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18					
							21		11	
NB3WAY	PowerPlex® Y 23									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18		23			
	12	11	20	17			21	11	11	
NH32GH	Yfiler®									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18					
							21		11	2

TABLE 2

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

Item 2 - YSTR Results

NT3QYJ	Yfiler®										
		15	14,17	13	30	21	10	11	14	15	
2	11	13	20		14	18					
								21		11	
NW28AR	PowerPlex® Fusion										
							10				
2											
NW2ZB7	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
2	11	13	20		14	18		23			
		12	11	20	17			21	11	11	
P6CNGR	GlobalFiler™ Express										
							10				
2											
											2
P6DET2	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
2	11	13	20		14	18		23			
		12	11	20	17			21	11	11	
PN4R2Y	PowerPlex® Y 23, PowerPlex® Fusion 6C										
		15	14,17	13	30	21	10	11	14	15	
2	11	13	20		14	18		23			
		12	11	20	17			21	11	11	
PYN4DC	PowerPlex® Fusion										
							10				
2											
QFRXKC	PowerPlex® Y 23, GlobalFiler™										
		15	14,17	13	30	21	10	11	14	15	
2	11	13	20		14	18		23			
		12	11	20	17			21	11	11	2
QPFPDV											
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RNX28L	PowerPlex® Fusion										
							10				
2											
RT8HEP	GlobalFiler™ Express										
							10				
2											
											2
TCGWAN	GlobalFiler™										
							10				
2											
											2

TABLE 2

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

Item 2 - YSTR Results

TKDRCT	Yfiler®										
		15	14,17	13	30	21	10	11	14	15	
2	11	13	20		14	18					
								21		11	
TNUWAN	GlobalFiler™										
							10				
2											2
TUHGCI	PowerPlex® Fusion										
							10				
2											
TUYX7C	PowerPlex® Y 23, GlobalFiler™										
		15	14,17	13	30	21	10	11	14	15	
2	11	13	20		14	18		23			
		12	11	20	17			21	11	11	2
TXGLR	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
2	11	13	20		14	18		23			
		12	11	20	17			21	11	11	
TYQ3ZF	Yfiler®										
		15	14,17	13	30	21	10	11	14	15	
2	11	13	20		14	18					
								21		11	
TYUMP6											
							10				
2				20	17						
TZP49T											
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
U3M77T	Yfiler®										
		15	14,17	13	30	21	10	11	14	15	
2	11	13	20		14	18					
								21		11	
UAAWTN	Yfiler®, GlobalFiler™										
		15	14,17	13	30	21	10	11	14	15	
2	11	13	20		14	18					
								21		11	2
UB3M6U	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
2	11	13	20		14	18		23			
		12	11	20	17			21	11	11	
UB3PN8	GlobalFiler™										
							10				
2											2

TABLE 2

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

Item 2 - YSTR Results

VFD6TP	PowerPlex® Fusion									
2	10									
VHX6VQ	GlobalFiler™									
2	10									
	2									
VLGYXJ	Yfiler®, PowerPlex® Fusion 6C									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18					
			20	17			21		11	
VTXKWN	PowerPlex® Fusion									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18		23			
	12	11	20	17			21	11	11	
VW2B6P	PowerPlex® Y 23, GlobalFiler™, PowerPlex® Fusion 5C, Investigator® 24plex									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18		23			
	12	11	20	17			21	11	11	2
WJMTQR	PowerPlex® Y 23									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18		23			
	12	11	20	17			21	11	11	
WK4UTT	Yfiler® Y-STR									
2	-	15	14,17	13	30	21	10	11	14	15
	11	13	20	-	14	18	-	-	-	-
	-	-	-	-	-	-	-	21	-	11
WQ8VTM										
2	10									
WX6PRL	PowerPlex® Fusion 5C									
2	10									
X8BPZM	GlobalFiler™									
2	10									
	2									
X96HV7	Yfiler® Plus, GlobalFiler™									
2	37,38	15	14,17	13	30	21	10	11	14	15
	11	13	20	34	14	18	9	23		41
		12		20	17		16	21		11
										2
XAB3GK	Yfiler®									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18					
							21		11	2

TABLE 2

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

Item 2 - YSTR Results

XE7UPH	PowerPlex® Fusion									
2	10									
XJK68R	PowerPlex® Y 23									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18	23				
	12	11	20	17		21	11	11		
XWCWPB	Yfiler®									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18					
							21			11
XXL7FM	PowerPlex® Y 23									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18	23				
	12	11	20	17		21	11	11		
XZQUYJ	PowerPlex® Fusion									
2	10									
Y87R3W	PowerPlex® Fusion 6C									
2	10									
			20	17						
YDTDEP	PowerPlex® Y 23									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18	23				
	12	11	20	17		21	11	11		
YEN3GX	PowerPlex® Fusion Fusion 6C									
2	10									
			20	17						
YKDFHL	PowerPlex® Y 23									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18	23				
	12	11	20	17		21	11	11		
YKR74B	Yfiler®									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18					
							21			11
YMZCNQ	PowerPlex® Y 23									
2	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18	23				
	12	11	20	17		21	11	11		
YTM6VJ	Investigator® 24plex									
2	10									

TABLE 2

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

Item 2 - YSTR Results

Z3U7UP	Yfiler®									
	-	15	14,17	13	30	21	10	11	14	15
2	11	13	20	-	14	18	-	-	-	-
	-	-	-	-	-	-	-	21	-	11
ZL47Z6	Yfiler® Plus, GlobalFiler™									
	37,38	15	14,17	13	30	21	10	11	14	15
2	11	13	20	34	14	18	9	23		41
		12		20	17		16	21		11
										2
ZVRWMX	PowerPlex® Fusion 6C									
							10			
2										
			20	17						

TABLE 2

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

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23MG6J	PowerPlex® Fusion 5C									
3	10									
2B26YK	PowerPlex® Y 23									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17		21			
	10	12	18	16			21	11	11	
2DL8RC	Yfiler®, PowerPlex® Fusion Fusion 6C									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
			18	16			21		11	
2G69NJ	GlobalFiler™									
3	NT	NT	NT	NT	NT	NT	10	NT	NT	NT
	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	NT	NT	NT	NT	NT	NT	NT	NT	NT	2
2KLEME	Yfiler®									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
							21		11	
3C6HVC	PowerPlex® Fusion									
3	10									
3D4KPN	Yfiler®									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
							21		11	
3PFNER	GlobalFiler™									
3	10									
										2
4DWTBC	Yfiler®, GlobalFiler™									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
							21		11	2
687KNX	GlobalFiler™									
3	10									
										2
6AC7DH	Yfiler®									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
							21		11	
6ATE7J	Yfiler®									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
							21		11	

TABLE 2

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

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6WPWQD								10		
3	[Bar chart]									
			18		16					
7MW6GQ	PowerPlex® Fusion 6C									
								10		
3	[Bar chart]									
			18		16					
7XFJH8	PowerPlex® Fusion									
								10		
3	[Bar chart]									
89TZQ6	PowerPlex® Fusion									
								10		
3	[Bar chart]									
8EGNKA								10		
3	[Bar chart]									
										2
8HX4WM								10		
3	[Bar chart]									
										2
8MVMYL	GlobalFiler™									
								10		
3	[Bar chart]									
										2
8THFBK	Yfiler®, PowerPlex® Fusion 6C									
		15	13,15	12	29	21	10	11	14	15
3	10	11	22		16	17				
				18	16			21		11
8XTDX8	Yfiler®									
		15	13,15	12	29	21	10	11	14	15
3	10	11	22		16	17				
								21		11
9DN9Z7	GlobalFiler™									
								10		
3	[Bar chart]									
										2
9HXDKD	GlobalFiler™									
								10		
3	[Bar chart]									
										2
A93RT6	Yfiler®									
		15	13,15	12	29	21	10	11	14	15
3	10	11	22		16	17				
								21		11

TABLE 2

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

Item 3 - YSTR Results

AD24TC	Investigator® 24plex									
3	10									
AE6Y99	Yfiler®									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
								21	11	2
AE7VJ4	PowerPlex® Fusion									
3	10									
AJ49P2	GlobalFiler™									
3	10									
										2
AMMALA	Yfiler®									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
								21	11	
ARUVCR	GlobalFiler™									
3	10									
										2
ATCMNW	Yfiler®									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
								21	11	2
B2KWC2	Yfiler®									
3	not tested	15	13,15	12	29	21	10	11	14	15
	10	11	22	not tested	16	17	not tested	not tested	not tested	not tested
	not tested	not tested	not tested	not tested	not tested	not tested	not tested	21	not tested	11
BFLAQD	Yfiler®									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
								21	11	
BFX9J2	PowerPlex® Fusion									
3	10									
BMYG93	PowerPlex® Fusion 6C									
3	10									
			18	16						
BX2G7F	PowerPlex® Y 23									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17		21			
	10	12	18	16			21	11	11	

TABLE 2

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

Item 3 - YSTR Results

DKPXEY	PowerPlex® Fusion									
3	10									
DXQTB7	PowerPlex® Y 23									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17		21			
	10	12	18	16			21	11	11	
E2TW28	PowerPlex® Y 23									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17		21			
	10	12	18	16			21	11	11	
E6AAMF	GlobalFiler™									
3	10									
EA3HP2	PowerPlex® Fusion									
3	10									
EC6JPY	PowerPlex® Fusion									
3	10									
EEUMH7	PowerPlex® Y 23									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17		21			
	10	12	18	16			21	11	11	
ELUZMF	PowerPlex® Y 23									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17		21			
	10	12	18	16			21	11	11	
EPW38B	Yfiler®									
3	-	15	13,15	12	29	21	10	11	14	15
	10	11	22	-	16	17	-	-	-	-
	-	-	-	-	-	-	-	21	-	11
ETD977										
3	10									
			18	16						
EYGCUJ	Yfiler®, PowerPlex® Fusion Fusion 6C									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
			18	16			21		11	
FAVU2F	PowerPlex® Fusion 6C									
3	10									
			18	16						

TABLE 2

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

Item 3 - YSTR Results

FBUPTY	PowerPlex® Y 23										
		15	13,15	12	29	21	10	11	14	15	
	3	10	11	22	16	17		21			
	10	12	18	16			21	11	11		
FP8A7W	PowerPlex® Fusion										
	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	10	NOT TESTED	NOT TESTED	NOT TESTED	
	3	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	
	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED
GC3972							10				
3											2
GCHKTC	GlobalFiler™										
							10				
3											2
GL3YPM	Yfiler®, GlobalFiler™										
		15	13,15	12	29	21	10	11	14	15	
	3	10	11	22	16	17					
								21		11	2
GLQ683	Yfiler® Plus, GlobalFiler™										
	36,39	15	13,15	12	29	21	10	11	14	15	
	3	10	11	22	30	16	17	10	21	38	
		10		18	16		19	21		11	2
GQYPVY	PowerPlex® Fusion										
							10				
3											
H7AJ89	PowerPlex® Y 23										
		15	13,15	12	29	21	10	11	14	15	
	3	10	11	22	16	17		21			
	10	12	18	16			21	11	11		
H9F4V9	Yfiler®, PowerPlex® Fusion Fusion 6C										
		15	13,15	12	29	21	10	11	14	15	
	3	10	11	22	16	17					
			18	16			21		11		
HG8PWZ	PowerPlex® Fusion 6C, Investigator® 24plex										
							10				
3											
			18	16							
HUWNN4	Yfiler®										
		15	13,15	12	29	21	10	11	14	15	
	3	10	11	22	16	17					
								21		11	

TABLE 2

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

Item 3 - YSTR Results

HZ26GX	Yfiler®	15	13,15	12	29	21	10	11	14	15	
	3	10	11	22	16	17		21		11	
JBLPJ9	Yfiler®, PowerPlex® Fusion 6C	15	13,15	12	29	21	10	11	14	15	
	3	10	11	22	16	17		21		11	
				18	16						
JDL3Z8	Yfiler®	15	13,15	12	29	21	10	11	14	15	
	3	10	11	22	16	17		21		11	
JLHUC8	GlobalFiler™						10				
	3									2	
KHWEDY	Yfiler®, GlobalFiler™	15	13,15	12	29	21	10	11	14	15	
	3	10	11	22	16	17		21		11	
										2	
KJ7MHD	PowerPlex® Fusion						10				
	3										
KLUXFX							10				
	3									2	
KRXZFR	PowerPlex® Fusion						10				
	3										
LHTAEG	PowerPlex® Fusion 5C						10				
	3										
LHTC4K	Yfiler®	15	13,15	12	29	21	10	11	14	15	
	3	10	11	22	16	17		21		11	
LKVACT	PowerPlex® Y 23	15	13,15	12	29	21	10	11	14	15	
	3	10	11	22	16	17		21		11	
		10	12	18	16			21	11	11	
LWB6RR	PowerPlex® Y Y23	NT	15	13,15	12	29	21	10	11	14	15
	3	10	11	22	NT	16	17	NT	21	NT	NT
		NT	10	12	18	16	NT	NT	21	11	11

TABLE 2

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

Item 3 - YSTR Results

M64PF6	GlobalFiler™									
3	10									
	2									
M6JA2N	PowerPlex® Y 23									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17		21			
	10	12	18	16			21	11	11	
M7VT3K	Yfiler®									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
							21		11	
MFKCN7	Yfiler®, PowerPlex® Fusion 6C									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
			18	16			21		11	
MW6694	Yfiler®									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
							21		11	
NB3WAY	PowerPlex® Y 23									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17		21			
	10	12	18	16			21	11	11	
NH32GH	Yfiler®									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
							21		11	2
NT3QYJ										
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17					
							21		11	
NW28AR	PowerPlex® Fusion									
3	10									
NW2ZB7	PowerPlex® Y 23									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17		21			
	10	12	18	16			21	11	11	
P6CNGR	GlobalFiler™									
3	10									
	2									
P6DET2	PowerPlex® Y 23									
3	15	13,15	12	29	21	10	11	14	15	
	10	11	22	16	17		21			
	10	12	18	16			21	11	11	

TABLE 2

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

Item 3 - YSTR Results

PN4R2Y	Yfiler®	15	13,15	12	29	21	10	11	14	15
3		10	11	22	16	17		21		11
PYN4DC	PowerPlex® Fusion						10			
3										
QFRXKC	PowerPlex® Y 23, GlobalFiler™	15	13,15	12	29	21	10	11	14	15
3		10	11	22	16	17		21		
		10	12	18	16			21	11	11
RNX28L	PowerPlex® Fusion						10			
3										
RT8HEP	GlobalFiler™						10			
3										2
TCGWAN	GlobalFiler™						10			
3										2
TKDRCT	Yfiler®	15	13,15	12	29	21	10	11	14	15
3		10	11	22	16	17		21		11
TNUWAN	PowerPlex® Fusion 6C						10			
3				18	16					
TUHGCJ	PowerPlex® Fusion						10			
3										
TUYX7C	PowerPlex® Y 23, GlobalFiler™	15	13,15	12	29	21	10	11	14	15
3		10	11	22	16	17		21		
		10	12	18	16			21	11	11
TXGXL	PowerPlex® Y 23	15	13,15	12	29	21	10	11	14	15
3		10	11	22	16	17		21		
		10	12	18	16			21	11	11
TYUMP6							10			
3										2

TABLE 2

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

Item 3 - YSTR Results

U3M77T	Yfiler®										
		15	13,15	12	29	21	10	11	14	15	
3	10	11	22		16	17					
								21		11	
UAAWTN	Yfiler®										
		15	13,15	12	29	21	10	11	14	15	
3	10	11	22		16	17					
								21		11	
UB3M6U	PowerPlex® Y 23										
		15	13,15	12	29	21	10	11	14	15	
3	10	11	22		16	17		21			
		10	12	18	16			21	11	11	
UB3PN8	GlobalFiler™										
							10				
3											2
VFD6TP	PowerPlex® Fusion										
							10				
3											
VHX6VQ	GlobalFiler™										
							10				
3											2
VLGYXJ	PowerPlex® Fusion Fusion 6C										
							10				
3											
				18	16						
VTXKWN	PowerPlex® Fusion										
		15	13,15	12	29	21	10	11	14	15	
3	10	11	22		16	17		21			
		10	12	18	16			21	11	11	
VW2B6P	PowerPlex® Y 23										
		15	13,15	12	29	21	10	11	14	15	
3	10	11	22		16	17		21			
		10	12	18	16			21	11	11	
WJMTQR	PowerPlex® Y 23										
		15	13,15	12	29	21	10	11	14	15	
3	10	11	22		16	17		21			
		10	12	18	16			21	11	11	
WK4UTT	Yfiler® Y-STR										
	-	15	13,15	12	29	21	10	11	14	15	
3	10	11	22	-	16	17	-	-	-	-	
	-	-	-	-	-	-	-	21	-	11	-
WQ8VTM											
							10				
3											
											2

TABLE 2

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

Item 3 - YSTR Results

WX6PRL	PowerPlex® Fusion 6C									
3	10									
	18 16									
X96HV7	Yfiler® Plus, GlobalFiler™									
3	36,39	15	13,15	12	29	21	10	11	14	15
	10	11	22	30	16	17	10	21		38
		10		18	16		19	21		11 2
XAB3GK	Yfiler®									
3		15	13,15	12	29	21	10	11	14	15
	10	11	22		16	17				
								21		11 2
XE7UPH	PowerPlex® Fusion									
3	10									
JJK68R	PowerPlex® Y 23									
3		15	13,15	12	29	21	10	11	14	15
	10	11	22		16	17		21		
		10	12	18	16			21	11	11
XWCWPB	Yfiler®									
3		15	13,15	12	29	21	10	11	14	15
	10	11	22		16	17				
								21		11
XXL7FM	PowerPlex® Y 23									
3		15	13,15	12	29	21	10	11	14	15
	10	11	22		16	17		21		
		10	12	18	16			21	11	11
Y87R3W	PowerPlex® Fusion 6C									
3	10									
	18 16									
YDTDEP	PowerPlex® Y 23									
3		15	13,15	12	29	21	10	11	14	15
	10	11	22		16	17		21		
		10	12	18	16			21	11	11
YEN3GX	PowerPlex® Fusion Fusion 6C									
3	10									
	18 16									
YKDFHL	PowerPlex® Y 23									
3		15	13,15	12	29	21	10	11	14	15
	10	11	22		16	17		21		
		10	12	18	16			21	11	11
YMZCNQ	PowerPlex® Y 23									
3		15	13,15	12	29	21	10	11	14	15
	10	11	22		16	17		21		
		10	12	18	16			21	11	11

TABLE 2

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

Item 3 - YSTR Results

YTM6VJ	GlobalFiler™										
	10										
3											
	2										
Z3U7UP	Yfiler®										
	-	15	13,15	12	29	21	10	11	14	15	
3	10	11	22	-	16	17	-	-	-	-	
	-	-	-	-	-	-	-	21	-	11	-
ZL47Z6	Yfiler® Plus, GlobalFiler™										
	36,39	15	13,15	12	29	21	10	11	14	15	
3	10	11	22	30	16	17	10	21		38	
		10		18	16		19	21		11	2
ZVRWMX	PowerPlex® Fusion 6C										
	10										
3											
					18	16					

TABLE 2

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

Item 4 - YSTR Results

C4K9M9

10

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TABLE 2

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

Item 4e - YSTR Results

23MG6J	PowerPlex® Fusion 5C										
	No Results										
4e											
2B26YK	PowerPlex® Y 23										
4e											
2DL8RC	Yfiler®, PowerPlex® Fusion Fusion 6C										
	[10]										
4e											
				[20]	[17]						
2G69NJ	GlobalFiler™										
	NT	NT	NT	NT	NT	NT	10	NT	NT	NT	
4e	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	2
2KLEME	Yfiler®										
		15	14,17	13	30	21	10	11	14	15	
4e	11	13	20		14	18					
								21		11	
2TYK4H	PowerPlex® Fusion Fusion 6C										
	10										
4e											
3C6HVC	PowerPlex® Fusion										
	[10]										
4e											
3D4KPN	Yfiler®										
	-	-	-	-	-	-	-	-	-	-	-
4e	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
3PFNER	GlobalFiler™										
4e											
											2
4DWTBC		15	14,17	13	30	21	10	11	14	15	
4e	11	13	20		14	18					
								21		11	
687KNX	GlobalFiler™										
4e											
6AC7DH	Yfiler®										
		15	14,17	13	30	21	10	11	14	15	
4e	11	13	20		14	18					
								21		11	

TABLE 2

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

Item 4e - YSTR Results

6ATE7J	Yfiler®	15	14,17	13	30	21	10	11	14	15
4e		11	13	20	14	18		21		11
6WPWQD							10			
4e										2
7MW6GQ							[10]			
4e										
7XFJH8	PowerPlex® Fusion						ND			
4e										
89TZQ6	PowerPlex® Fusion						10			
4e										
8EGNKA							N.D.			
4e										N.D.
8HX4WM										
4e										[2]
8MVMYL	GlobalFiler™						[10]			
4e										[2]
8THFBK	Yfiler®, PowerPlex® Fusion 6C						[10]			
4e										
				NR	[17]					
8XTDX8	Yfiler®	15	14,17	13	30	21	10	11	14	15
4e		11	13	20	14	18		21		11
9DN9Z7	GlobalFiler™									
4e										[2]
9HXDKD	GlobalFiler™						10			
4e										2

TABLE 2

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

Item 4e - YSTR Results

A93RT6	Yfiler®	15	14,17	13	30	21	10	11	14	15
4e		11	13	20	14	18				
								21		11
AD24TC	Investigator® 24plex						10			
4e										
AE6Y99	Yfiler®						10			
4e										2
AE7VJ4	PowerPlex® Fusion						[10]			
4e										
AJ49P2	GlobalFiler™									
4e										
AMMALA	Yfiler®									
4e										
ARUVCR	GlobalFiler™									
4e										[2]
ATCMNW	Yfiler®	15	14,17	13	30	21	10	11	14	15
4e		11	13	20	14	18				
								21		11
B2KWC2	Yfiler®	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested
4e		not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested
		not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested	not tested
BFLAQD	Yfiler®	15	14,17	13	30	21	10	11	14	15
4e		11	13	20	14	18				
								21		11
BFX9J2	PowerPlex® Fusion						ND [10]			
4e										
BMYG93	PowerPlex® Fusion 6C						[10]			
4e										

TABLE 2

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

Item 4e - YSTR Results

BX2G7F	PowerPlex® Y 23									
		15	14,17	13	30	21	10	11	14	15
	4e	11	13	20	14	18	23	21	11	11
CEMMRE	PowerPlex® Y Y23									
		NR	NR	13	30	21	10	NR	NR	NR
	4e	11	NR	20	NR	18	23	21	NR	NR
CJDYMB	Yfiler®									
		15	14,17	13	30	21	10	11	14	15
	4e	11	13	20	14	18	21	11		
CME3GJ										
	4e	2						10		
CVP4XD	GlobalFiler™									
	4e									
D3LLMA	Yfiler®									
		15	14,17	13	30	21	10	11	14	15
	4e	11	13	20	14	18	21	11		
D6ECZF	PowerPlex® Y 23, GlobalFiler™									
		15	14,17	13	30	21	10	11	14	15
	4e	11	13	20	14	18	23	21	11	11
D8KWMF	GlobalFiler™									
	4e									
DBJDV4	PowerPlex® Y 23, PowerPlex® Fusion									
		15	14,17	13	30	21	10	11	14	15
	4e	11	13	20	14	18	23	21	11	11
DJTKUR	Yfiler® Plus, GlobalFiler™									
	37,38	15	14,17	13	30	21	10	11	14	15
	4e	11	13	20	34	14	18	9	23	41
DJW8AK	GlobalFiler™									
	4e	10								
DKPXAY	PowerPlex® Fusion									
	4e	(10)								

TABLE 2

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

Item 4e - YSTR Results

DXQTB7	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
4e	11	13	20		14	18		23			
		12	11	20	17			21	11	11	
E2TW28	PowerPlex® Y 23										
4e	[REDACTED]										
E6AAMF	GlobalFiler™										
								[10]			
4e	[REDACTED]										
										2	
EA3HP2	PowerPlex® Fusion										
								ND			
4e	[REDACTED]										
EC6JPY	PowerPlex® Fusion										
								ND			
4e	[REDACTED]										
EEUMH7	PowerPlex® Y 23										
4e	[REDACTED]										
ELUZMF	PowerPlex® Y 23										
		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4e	NT	NT	NT		NT	NT		NT			
		NT	NT	NT	NT			NT	NT	NT	
EPW38B	Yfiler®										
	-	-	-	-	-	-	-	-	-	-	-
4e	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-
ETD977											
								10			
4e	[REDACTED]										
										2	
EYGCUJ	Yfiler®, PowerPlex® Fusion Fusion 6C										
		15	14,17	13	30	21	10	11	14	15	
4e	11	13	20		14	18					
								21		11	
FAVU2F	PowerPlex® Fusion 6C										
								[10]			
4e	[REDACTED]										
				[17]							
FBUPTY	PowerPlex® Y 23										
4e	[REDACTED]										

TABLE 2

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

Item 4e - YSTR Results

FP8A7W	PowerPlex® Fusion										
	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	10	NOT TESTED	NOT TESTED	NOT TESTED	
4e	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	
	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED
GC3972											
	Not Detected										
4e	Not Detected										
GCHKTC	GlobalFiler™										
	10										
4e	2										
GL3YPM	Yfiler®, GlobalFiler™										
		15	14,17	13	30	21	10	11	14	15	
4e	11	13	20		14	18					
								21		11	2
GLQ683	Yfiler® Plus, GlobalFiler™										
	37,38	15	14,17	13	30	21	10	11	14	15	
4e	11	13	20	34	14	18	9	23		41	
		12		20	17		16	21		11	NR
GQYPVY	PowerPlex® Fusion										
	(10)										
4e											
H7AJ89	PowerPlex® Y 23										
		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
4e	NT	NT	NT	NT	NT	NT		NT	NT	NT	
		NT	NT	NT	NT			NT	NT	NT	
H9F4V9	Yfiler®, PowerPlex® Fusion Fusion 6C										
	10										
4e											
			20	NR							
HG8PWZ	GlobalFiler™										
	10										
4e	2										
HUWNN4	Yfiler®										
		15	14,17	13	30	21	10	11	14	15	
4e	11	13	20		14	18					
								21		11	
HZ26GX	Yfiler®										
		15	14,17	13	30	21	10	11	14	15	
4e	11	13	20		14	18					
								21		11	

TABLE 2

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

Item 4e - YSTR Results

JBLPJ9	Yfiler®, PowerPlex® Fusion 6C										
4e	[10]										
		[20]	[17]								
JDL3Z8	Yfiler®										
4e	15	14,17	13	30	21	10	11	14	15		
	11	13	20	14	18		21		11		
JLHUC8	GlobalFiler™										
4e	[10]										
											[2]
KHWEDY	Yfiler®, GlobalFiler™										
4e	15	14,17	13	30	21	10	11	14	15		
	11	13	20	14	18		21		11	2	
KJ7MHD	PowerPlex® Fusion										
4e	No results										
KLUXFX	N.D.										
4e	2										
KRXZFR	PowerPlex® Fusion										
4e	[10]										
LHTAEG	PowerPlex® Fusion 5C										
4e	[10]										
LHTC4K	Yfiler®										
4e	15	14,17	13	30	21	10	11	14	15		
	11	13	20	14	18		21		11		
LKVACT	PowerPlex® Y 23										
4e											
LWB6RR	PowerPlex® Y Y23										
4e	NT	NT	NT	NT	NT	NT	[10]	NT	NT	NT	
	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
M64PF6	GlobalFiler™										
4e	(10)										
											(2)

TABLE 2

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

Item 4e - YSTR Results

M6JA2N	PowerPlex® Y 23									
4e	[REDACTED]									
M7VT3K	Yfiler®									
4e	NR	NR	13	30	21	NR	NR	NR	NR	
	NR	NR	NR	14	NR			NR	NR	
MFKCN7	Yfiler®									
4e	10									
	17									
MW6694	Yfiler®									
4e	11	20					11		15	
							21		11	
NB3WAY	PowerPlex® Y 23									
4e	[REDACTED]									
NH32GH	Yfiler®									
4e	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18					
							21		11	2
NT3QYJ	Yfiler®									
4e	11					10	11	14	15	
					18					
							21			
NW28AR	PowerPlex® Fusion									
4e	ND [10]									
NW2ZB7	PowerPlex® Y 23									
4e	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18		23			
	12	11	20	17			21	11	11	
P6CNGR	GlobalFiler™									
4e	10									
	2									
P6DET2	PowerPlex® Y 23									
4e	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18		23			
	12	11	20	17			21	11	11	
PN4R2Y	Yfiler®									
4e	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18					
							21		11	

TABLE 2

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

Item 4e - YSTR Results

PYN4DC	PowerPlex® Fusion									
4e	[Redacted]									
QFRXKC	GlobalFiler™									
4e	[Redacted]									
							10			2
RNX28L	PowerPlex® Fusion									
4e	[Redacted]									
							ND			
RT8HEP	GlobalFiler™									
4e	[Redacted]									
							10			2
TCGWAN	GlobalFiler™									
4e	[Redacted]									
TKDRCT	Yfiler®									
4e	[Redacted]									
		15	14,17	13	30	21	10	11	14	15
	11	13	20		14	18		21		11
TNUWAN	PowerPlex® Fusion 6C									
4e	[Redacted]									
							10			
			No Results	No Results						
TUHGCI	PowerPlex® Fusion									
4e	[Redacted]									
							ND			
TUYX7C	GlobalFiler™									
4e	[Redacted]									
										2
TXGCLR	PowerPlex® Y 23									
4e	[Redacted]									
U3M77T	Yfiler®									
4e	[Redacted]									
		15	14,17	13	30	21	10	11	14	15
	11	13	20		14	18		21		11
UAAWTN	Yfiler®									
4e	[Redacted]									
		15	14,17	13	30	21	10	11	14	15
	11	13	20		14	18		21		11

TABLE 2

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

Item 4e - YSTR Results

UB3M6U	PowerPlex® Y 23									
	15	14,17	13	30	21	10	11	14	15	
4e	11	13	20	14	18		23			
	12	11	20	17			21	11	11	
UB3PN8	GlobalFiler™									
4e	/									
VFD6TP	PowerPlex® Fusion									
4e	(10)									
VHX6VQ	GlobalFiler™									
4e	[10]									
VLGYJ	PowerPlex® Fusion Fusion 6C									
4e	10									
	17									
VTXKWN	PowerPlex® Fusion									
4e										
VW2B6P	PowerPlex® Y 23									
	15	14,17	13	30	21	10	11	14	15	
4e	11	13	20	14	18		23			
	12	11	20	17			21	11	11	
WJMTQR	PowerPlex® Y 23									
	15	14,17	13	30	21	10	11	14	15	
4e	11	13	20	14	18		23			
	12	11	20	17			21	11	11	
WK4UTT	Yfiler® Y-STR									
4e	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
WQ8VTM	GlobalFiler™									
4e	10									
	2									
WX6PRL	GlobalFiler™									
4e	10									
	2									
X96HV7	Yfiler® Plus, GlobalFiler™									
	37,38	15	14,17	13	30	21	10	11	14	15
4e	11	13	20	34	14	18	9	23		41
	12		20	17			16	21	11	[2]

TABLE 2

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

Item 4e - YSTR Results

XAB3GK	Yfiler®										
		15	14,17	13	30	21	10	11	14	15	
	4e	11	13	20		14	18				
								21		11	[2]
XE7UPH	PowerPlex® Fusion										
	4e										
XJK68R	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
	4e	11	13	20		14	18		23		
		12	11	20	17			21	11	11	
XWCWPB	Yfiler®										
	4e										
XXL7FM	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
	4e	11	13	20		14	18		23		
		12	11	20	17			21	11	11	
Y87R3W	PowerPlex® Fusion 6C										
	4e										
YDTDEP	PowerPlex® Y 23										
		15	INC	INC	INC	INC	10	INC	INC	INC	
	4e	INC	13	INC		14	18		23		
		INC	11	20	17			21	11	INC	
YEN3GX	PowerPlex® Fusion Fusion 6C										
	4e										
YKDFHL	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
	4e	11	13	20		14	18		23		
		12	11	20	17			21	11	11	
YMZCNQ	PowerPlex® Y 23										
		NT	NT	NT	NT	NT	NT	NT	NT	NT	
	4e	NT	NT	NT		NT	NT		NT		
		NT	NT	NT	NT			NT	NT	NT	
Z3U7UP	Yfiler®										
		-	15	14,17	13	30	21	10	11	14	15
	4e	11	13	20	-	14	18	-	-	-	-
		-	-	-	-	-	-	21	-	11	-
ZL47Z6	Yfiler® Plus, GlobalFiler™										
		37,38	15	14,17	13	30	21	10	11	14	15
	4e	11	13	20	34	14	18	9	23		41
		12		20	17			16	21		11
											2

TABLE 2

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

Item 4e - YSTR Results

ZVRWMX PowerPlex® Fusion 6C

4e

TABLE 2

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

Item 4sp - YSTR Results

23MG6J	PowerPlex® Fusion 5C									
4sp	10									
2B26YK	PowerPlex® Y 23									
4sp	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18		23			
	12	11	20	17			21	11	11	
2DL8RC	Yfiler®, PowerPlex® Fusion Fusion 6C									
4sp	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18					
			20	17			21		11	
2G69NJ	GlobalFiler™									
4sp	NT	NT	NT	NT	NT	NT	[9],10	NT	NT	NT
	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	NT	NT	NT	NT	NT	NT	NT	NT	NT	2
2KLEME	Yfiler®									
4sp	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18					
							21		11	
2TYK4H	PowerPlex® Fusion Fusion 6C									
4sp	10									
			20	17						
3C6HVC	PowerPlex® Fusion									
4sp	10									
3D4KPN	Yfiler®									
4sp	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18					
							21		11	
3PFNER	GlobalFiler™									
4sp	10									
										2
4DWTBC	Yfiler®									
4sp	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18					
							21		11	
687KNX	GlobalFiler™									
4sp	10									
										2
6AC7DH	Yfiler®									
4sp	15	14,17	13	30	21	10	11	14	15	
	11	13	20	14	18					
							21		11	

TABLE 2

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

Item 4sp - YSTR Results

6ATE7J	Yfiler®	15	14,17	13	30	21	10	11	14	15
4sp		11	13	20	14	18		21		11
6WPWQD							10			
4sp										2
7MW6GQ							10			
4sp				20	17					
7XFJH8	PowerPlex® Fusion						10			
4sp										
89TZQ6	PowerPlex® Fusion						10			
4sp										
8EGNKA							10			
4sp										2
8HX4WM							10			
4sp										2
8MVMYL	GlobalFiler™						10			
4sp										2
8THFBK	Yfiler®, PowerPlex® Fusion 6C	15	14,17	13	30	21	10	11	14	15
4sp		11	13	20	14	18		21		11
				20	17					
8XTDX8	Yfiler®	15	14,17	13	30	21	10	11	14	15
4sp		11	13	20	14	18		21		11
								21		11
9DN9Z7	GlobalFiler™						10			
4sp										2
9HXDKD	GlobalFiler™						10			
4sp										2

TABLE 2

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

Item 4sp - YSTR Results

A93RT6	Yfiler®	15	14,17	13	30	21	10	11	14	15
4sp		11	13	20	14	18				
								21		11
AD24TC	Investigator® 24plex						10			
4sp										
AE6Y99	Yfiler®	15	14,17	13	30	21	10	11	14	15
4sp		11	13	20	14	18				
								21		11
										2
AE7VJ4	PowerPlex® Fusion						10			
4sp										
AJ49P2	GlobalFiler™						10			
4sp										
										2
AMMALA	Yfiler®	15	14,17	13	30	21	10	11	14	15
4sp		11	13	20	14	18				
								21		11
ARUVCR	GlobalFiler™						10			
4sp										
										2
ATCMNW	Yfiler®	15	14,17	13	30	21	10	11	14	15
4sp		11	13	20	14	18				
								21		11
										2
B2KWC2	Yfiler®	15	14,17	13	30	21	10	11	14	15
4sp	not tested	11	13	20	not tested	14	18	not tested	not tested	not tested
	not tested	not tested	not tested	not tested	not tested	not tested	not tested	21	not tested	11
										not tested
BFLAQD	Yfiler®	15	14,17	13	30	21	10	11	14	15
4sp		11	13	20	14	18				
								21		11
BFX9J2	PowerPlex® Fusion						10			
4sp										
BMYG93	PowerPlex® Fusion 6C						10			
4sp										
			20	17						

TABLE 2

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

Item 4sp - YSTR Results

BX2G7F	PowerPlex® Y 23									
		15	14,17	13	30	21	10	11	14	15
	4sp	11	13	20	14	18	23	21	11	11
		12	11	20	17					
CEMMRE	PowerPlex® Y Y23									
		15	14,17	13	30	21	10	11	14	15
	4sp	11	13	20	14	18	23	21	11	11
		12	11	20	17					
CJDYMB	Yfiler®									
		15	14,17	13	30	21	10	11	14	15
	4sp	11	13	20	14	18		21		11
CME3GJ										
	4sp						2			10
CVP4XD	GlobalFiler™									
	4sp						10			2
D3LLMA	Yfiler®									
		15	14,17	13	30	21	10	11	14	15
	4sp	11	13	20	14	18		21		11
D6ECZF	PowerPlex® Y 23, GlobalFiler™									
		15	14,17	13	30	21	10	11	14	15
	4sp	11	13	20	14	18	23	21	11	11
		12	11	20	17					2
D8KWMF	GlobalFiler™									
	4sp						10			2
DBJDV4	PowerPlex® Y 23, PowerPlex® Fusion									
		15	14,17	13	30	21	10	11	14	15
	4sp	11	13	20	14	18	23	21	11	11
		12	11	20	17					
DJTKUR	Yfiler® Plus, GlobalFiler™									
	37,38	15	14,17	13	30	21	10	11	14	15
	4sp	11	13	20	34	14	18	9	23	41
		12		20	17		16	21		2
DJW8AK	GlobalFiler™									
	4sp						10			2
DKPXAY	PowerPlex® Fusion									
	4sp						10			

TABLE 2

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

Item 4sp - YSTR Results

DXQTB7	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
	4sp	11	13	20		14	18		23		
		12	11	20	17			21	11	11	
E2TW28	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
	4sp	11	13	20		14	18		23		
		12	11	20	17			21	11	11	
E6AAMF	GlobalFiler™										
	4sp						10				2
EA3HP2	PowerPlex® Fusion										
	4sp						10				
EC6JPY	PowerPlex® Fusion										
	4sp						10				
EEUMH7	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
	4sp	11	13	20		14	18		23		
		12	11	20	17			21	11	11	
ELUZMF	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
	4sp	11	13	20		14	18		23		
		12	11	20	17			21	11	11	
EPW38B	Yfiler®										
		15	14,17	13	30	21	10	11	14	15	
	4sp	11	13	20	-	14	18	-	-	-	-
		-	-	-	-	-	-	21	-	11	-
ETD977											
	4sp						10				2
EYGCUJ	Yfiler®, PowerPlex® Fusion Fusion 6C										
		15	14,17	13	30	21	10	11	14	15	
	4sp	11	13	20		14	18				
			20	17				21	11		
FAVU2F	PowerPlex® Fusion 6C										
	4sp						10				
			20	17							
FBUPTY	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
	4sp	11	13	20		14	18		23		
		12	11	20	17			21	11	11	

TABLE 2

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

Item 4sp - YSTR Results

FP8A7W	PowerPlex® Fusion										
	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	10	NOT TESTED	NOT TESTED	NOT TESTED	
4sp	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	
	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED	NOT TESTED
GC3972											
							10				
4sp											
											2
GCHKTC	GlobalFiler™										
							10				
4sp											
											2
GL3YPM	Yfiler®, GlobalFiler™										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18					
								21		11	2
GLQ683	Yfiler® Plus, GlobalFiler™										
	37,38	15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20	34	14	18	9	23		41	
			12	20	17		16	21		11	2
GQYPVY	PowerPlex® Fusion										
							10				
4sp											
H7AJ89	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18		23			
		12	11	20	17			21	11	11	
H9F4V9	Yfiler®, PowerPlex® Fusion Fusion 6C										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18					
			20	17				21		11	
HG8PWZ	GlobalFiler™										
							10				
4sp											
											2
HUWNN4	Yfiler®										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18					
								21		11	
HZ26GX	Yfiler®										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18					
								21		11	

TABLE 2

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

Item 4sp - YSTR Results

JBLPJ9	Yfiler®, PowerPlex® Fusion 6C										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18					
				20	17			21		11	
JDL3Z8	Yfiler®										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18					
								21		11	
JLHUC8	GlobalFiler™										
							10,[-]				
4sp											2,[-]
KHWEDY	Yfiler®, GlobalFiler™										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18					
								21		11	2
KJ7MHD	PowerPlex® Fusion										
							10				
4sp											
KLUXFX	PowerPlex® Fusion										
							10				
4sp											2
KRXZFR	PowerPlex® Fusion										
							10				
4sp											
LHTAEG	PowerPlex® Fusion 5C										
							10				
4sp											
LHTC4K	Yfiler®										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18					
								21		11	
LKVACT	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18		23			
		12	11	20	17			21	11	11	
LWB6RR	PowerPlex® Y Y23										
	NT	15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20	NT	14	18	NT	23	NT	NT	
	NT	12	11	20	17	NT	NT	21	11	11	NT
M64PF6	GlobalFiler™										
							10				
4sp											
											2

TABLE 2

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

Item 4sp - YSTR Results

M6JA2N	PowerPlex® Y 23									
		15	14,17	13	30	21	10	11	14	15
	4sp	11	13	20	14	18		23		
		12	11	20	17			21	11	11
M7VT3K	Yfiler®									
		15	14,17	13	30	21	10	11	14	15
	4sp	11	13	20	14	18				
								21		11
MFKCN7	Yfiler®									
		15	14,17	13	30	21	10	11	14	15
	4sp	11	13	20	14	18				
			20	17				21		11
MW6694	Yfiler®									
		15	14,17	13	30	21	10		14	
	4sp	13			14	18				
NB3WAY	PowerPlex® Y 23									
		15	14,17	13	30	21	10	11	14	15
	4sp	11	13	20	14	18		23		
		12	11	20	17			21	11	11
NH32GH	Yfiler®									
		15	14,17	13	30	21	10	11	14	15
	4sp	11	13	20	14	18				
								21	11	2
NT3QYJ	Yfiler®									
		15	14,17	13	30	21	10	11	14	15
	4sp	11	13	20	14	18				
								21		11
NW28AR	PowerPlex® Fusion									
	10									
NW2ZB7	PowerPlex® Y 23									
		15	14,17	13	30	21	10	11	14	15
	4sp	11	13	20	14	18		23		
		12	11	20	17			21	11	11
P6CNGR	GlobalFiler™									
	10									
P6DET2	PowerPlex® Y 23									
		15	14,17	13	30	21	10	11	14	15
	4sp	11	13	20	14	18		23		
		12	11	20	17			21	11	11
PN4R2Y	Yfiler®									
		15	14,17	13	30	21	10	11	14	15
	4sp	11	13	20	14	18				
								21		11

TABLE 2

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

Item 4sp - YSTR Results

PYN4DC	PowerPlex® Fusion									
4sp							10			
QFRXKC	GlobalFiler™							10		
4sp										2
RNX28L	PowerPlex® Fusion							10		
4sp										
RT8HEP	GlobalFiler™							10		
4sp										2
TCGWAN	GlobalFiler™							10		
4sp										2
TKDRCT	Yfiler®									
4sp		15	14,17	13	30	21	10	11	14	15
		11	13	20	14	18				
								21		11
TNUWAN	PowerPlex® Fusion 6C							10		
4sp				20	17					
TUHGCI	PowerPlex® Fusion							10		
4sp										
TUYX7C	GlobalFiler™							10		
4sp										2
TXGXLR	PowerPlex® Y 23									
4sp		15	14,17	13	30	21	10	11	14	15
		11	13	20	14	18		23		
		12	11	20	17			21	11	11
TYUMP6								10		
4sp										
U3M77T	Yfiler®									
4sp		15	14,17	13	30	21	10	11	14	15
		11	13	20	14	18				
								21		11

TABLE 2

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

Item 4sp - YSTR Results

UAAWTN	Yfiler®										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18					
								21		11	
UB3M6U	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18		23			
		12	11	20	17			21	11	11	
UB3PN8	GlobalFiler™										
							10				
4sp											2
VFD6TP	PowerPlex® Fusion										
							10				
4sp											
VHX6VQ	GlobalFiler™										
							10				
4sp											2
VLGYXJ	PowerPlex® Fusion Fusion 6C										
							10				
4sp				20	17						
VTXKWN	PowerPlex® Fusion										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18		23			
		12	11	20	17			21	11	11	
VW2B6P	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18		23			
		12	11	20	17			21	11	11	
WJMTQR	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18		23			
		12	11	20	17			21	11	11	
WK4UTT	Yfiler® Y-STR										
	-	15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20	-	14	18	-	-	-	-	
	-	-	-	-	-	-	-	21	-	11	-
WQ8VTM	GlobalFiler™										
							10				
4sp											2
WX6PRL	GlobalFiler™										
							10				
4sp											2

TABLE 2

WebCode	Amplification Kit										
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	DYS437	
	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	DYS505	DYS518	
Item	DYS522	DYS533	DYS549	DYS570	DYS576	DYS612	DYS627	DYS635	DYS643	YGATAH4	Y Indel
Item 4sp - YSTR Results											
X96HV7	Yfiler® Plus, GlobalFiler™										
	37,38	15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20	34	14	18	9	23		41	
		12		20	17		16	21		11	2
XAB3GK	Yfiler®										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18					
								21		11	2
XE7UPH	PowerPlex® Fusion										
							10				
4sp											
XJK68R	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18		23			
		12	11	20	17			21	11	11	
XWCWPB	Yfiler®										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18					
								21		11	
XXL7FM	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18		23			
		12	11	20	17			21	11	11	
Y87R3W	PowerPlex® Fusion 6C										
							10				
4sp											
				20	17						
YDTDEP	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18		23			
		12	11	20	17			21	11	11	
YEN3GX	PowerPlex® Fusion Fusion 6C										
							10				
4sp											
				20	17						
YKDFHL	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18		23			
		12	11	20	17			21	11	11	
YMZCNQ	PowerPlex® Y 23										
		15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20		14	18		23			
		12	11	20	17			21	11	11	
Z3U7UP	Yfiler®										
	-	15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20	-	14	18	-	-	-	-	
	-	-	-	-	-	-	-	21	-	11	-

TABLE 2

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

Item 4sp - YSTR Results

ZL47Z6	Yfiler® Plus, GlobalFiler™										
	37,38	15	14,17	13	30	21	10	11	14	15	
4sp	11	13	20	34	14	18	9	23		41	
		12		20	17		16	21		11	2
ZVRWMX	PowerPlex® Fusion 6C										
							10				
4sp											
			20		17						

Additional DNA Results

TABLE 3

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

Locus	WebCode	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4	Item 4e	Item 4sp
DYS391	6AC7DH							NR	
	CJDYMB							NR	
	U3M77T							NR	

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
238Z86	No Interpretations Reported, DNA Analyzed for Database purposes only.				8THFBK	Yes	No	No	Yes
23MG6J	Yes	No	No	Yes	8WDBRY	Yes	No	No	Yes
2B26YK	Yes	No	No	Yes	8XTDX8	Yes	No	No	Yes
2DL8RC	Yes	No	No	Yes	94FH73	Yes	No	No	Yes
2G69NJ	Yes	No	No	Yes	9AKAJ7	Yes	No	No	Yes
2KLEME	Yes	No	No	Yes	9DN9Z7	Yes	No	No	Yes
2TYK4H	Yes	No	No	Yes	9HXDKD	Yes	No	No	Yes
33FQB7	Yes	No	No	Yes	A93RT6	Yes	No	No	Yes
3C6HVC	Yes	No	No	Yes	ABVGF8	Yes	No	No	Yes
3D4KPN	Yes	No	No	Yes	AD24TC	Yes	No	No	Yes
3G27E6	Yes	No	No	Yes	AE6Y99	Yes	No	No	Yes
3PFNER	Yes	No	No	Yes	AE7VJ4	Yes	No	No	Yes
4DWTBC	Yes	No	No	Yes	AJ49P2	Yes	No	No	Yes
687KNX	Yes	No	No	Yes	AMMALA	Yes	No	No	Yes
6AC7DH	Yes	No	No	Yes	ARUVCR	Yes	No	No	Yes
6ATE7J	Yes	No	No	Yes	ATCMNW	Yes	No	No	Yes
6MYDBJ	Yes	No	No	Yes	AZ9JBZ	No Interpretations Reported, DNA Analyzed for Database purposes only.			
6WPWQD	Yes	No	No	Yes	B2KWC2	Yes	No	No	Yes
7FDUAG	Yes	No	No	Yes	BFLAQD	Yes	No	No	Yes
7KBDCF	Yes	No	No	Yes	BFX9J2	Yes	No	No	Yes
7MW6GQ	Yes	No	No	Yes	BMYG93	Yes	No	No	Yes
7XFJH8	Yes	No	No	Yes	BX2G7F	Yes	No	No	Yes
89TZQ6	Yes	No	No	Yes	C4K9M9	Yes	No	No	Yes
8DNVPQ	Yes	No	No	Yes	CEMMRE	Yes	No	No	Yes
8EGNKA	Yes	No	No	Yes	CJDYMB	Yes	No	No	Yes
8HX4WM	Yes	No	No	Yes	CME3GJ	Yes	No	No	Yes
8MVMYL	Yes	No	No	Yes	CVP4XD	Yes	No	No	Yes
8NNHJ9	Yes	No	No	Yes	D3LLMA	Yes	No	No	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
D6ECZF	Yes	No	No	Yes	GQYPVY	Yes	No	No	Yes
D8KWMF	Yes	No	No	Yes	GTREH2	Yes	No	No	Yes
DB4UC7	Yes	No	No	Yes	H7AJ89	Yes	No	No	Yes
DBJDV4	Yes	No	No	Yes	H9F4V9	Yes	No	No	Yes
DBYEWK	Yes	No	No	Yes, sp; No, bs	HFDW43	Yes	No	No	Yes
DJTKUR	Yes	No	No	Yes	HG8PWZ	Yes	No	No	Yes
DJW8AK	Yes	No	No	Yes	HUWNN4	Yes	No	No	Yes
DKPXKY	Yes	No	No	Yes	HUXC83	Yes	No	No	Yes
DXQTB7	Yes	No	No	Yes	HZ26GX	Yes	No	No	Yes
E2TW28	Yes	No	No	Yes	J8HZXR	No Interpretations Reported, DNA Analyzed for Database purposes only.			
E6AAMF	Yes	No	No	Yes	JBLPJ9	Yes	No	No	Yes
EA3HP2	Yes	No	No	Yes	JDL3Z8	Yes	No	No	Yes
EC6JPY	Yes	No	No	Yes	JEW7AP	Yes	No	No	Yes
EEUMH7	Yes	No	No	Yes	JFB9K4	Yes	No	No	Yes
EFNC68	No Interpretations Reported, DNA Analyzed for Database purposes only.				JLHUC8	Yes	No	No	Yes
ELUZMF	Yes	No	No	Yes	JTEW9R	No Interpretations Reported, DNA Analyzed for Database purposes only.			
ELVZFN	No Interpretations Reported, DNA Analyzed for Database purposes only.				JWZJ6K	No Interpretations Reported, DNA Analyzed for Database purposes only.			
EPW38B	Yes	No	No	Yes	JZW8LR	No Interpretations Reported, DNA Analyzed for Database purposes only.			
ETD977	Yes	No	No	Yes	KHWEDY	Yes	No	No	Yes
EYGCUJ	Yes	No	No	Yes	KJ7MHD	Yes	No	No	Yes
F6LDTR	Yes	No	No	Yes	KLUXFX	Yes	No	No	Yes
FAVU2F	Yes	No	No	Yes	KRXZFR	Yes	No	No	Yes
FBUPTY	Yes	No	No	Yes	LHTAEG	Yes	No	No	Yes
FP8A7W	Yes	No	No	Yes	LHTC4K	Yes	No	No	Yes
FWAEYG	Yes	No	No	Yes	LJ4ADW	Yes	No	No	Yes
GC3972	Yes	No	No	Yes	LKVACT	Yes	No	No	Yes
GCHKTC	Yes	No	No	Yes	LUPEN3	Yes	No	No	Yes
GL3YPM	Yes	No	No	Yes	LWB6RR	Yes	No	No	Yes
GLQ683	Yes	No	No	Yes	M64PF6	Yes	No	No	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
M6JA2N	Yes	No	No	Yes	TXGXR	Yes	No	No	Yes
M7VT3K	Yes	No	No	Yes	TYQ3ZF	No Interpretations Reported, DNA Analyzed for Database purposes only.			
M8R9EH	No Interpretations Reported, DNA Analyzed for Database purposes only.				TYUMP6	Yes	No	No	Yes
ME6D83	Yes	No	No	Yes	TZP49T	Yes	No	No	Yes
MFKCN7	Yes	No	No	Yes	U3M77T	Yes	No	No	Yes
MW6694	Yes	No	No	Yes	U3PTPT	Yes	No	No	Yes
NB3WAY	Yes	No	No	Yes	U9YWU9	No Interpretations Reported, DNA Analyzed for Database purposes only.			
NH32GH	Yes	No	No	Yes	UAAWTN	Yes	No	No	Yes
NPJPZQ	Yes	No	No	Yes	UB3M6U	Yes	No	No	Yes
NT3QYJ	Yes	No	No	Yes	UB3PN8	Yes	No	No	Yes
NW28AR	Yes	No	No	Yes	UB4F2G	Yes	No	No	Yes
NW2ZB7	Yes	No	No	Yes	VFD6TP	Yes	No	No	Yes
NZ29H2	Yes	No	No	Yes	VHX6VQ	Yes	No	No	Yes
P6CNGR	Yes	No	No	Yes	VLGYXJ	Yes	No	No	Yes
P6DET2	Yes	No	No	Yes	VTXKWN	Yes	No	No	Yes
PN4R2Y	Yes	No	No	Yes	VW2B6P	Yes	No	No	Yes
PYN4DC	Yes	No	No	Yes	WJMTQR	Yes	No	No	Yes
Q7KBDW	Yes	No	No	Yes	WK4UTT	Yes	No	No	Yes
QFRXKC	Yes	No	No	Yes	WQ8VTM	Yes	No	No	Yes
QPFPDV	Yes	No	No	Yes	WX6PRL	Yes	No	No	Yes
RMMDQV	Yes	No	No	Yes	WY3ZK4	Yes	No	No	Yes
RNDH3E	Yes	No	No	Yes	X8BPZM	Yes	No	No	Yes
RNX28L	Yes	No	No	Yes	X96HV7	Yes	No	No	Yes
RT8HEP	Yes	No	No	Yes	XAB3GK	Yes	No	No	Yes
TCGWAN	Yes	No	No	Yes	XE7UPH	Yes	No	No	Yes
TKDRCT	Yes	No	No	Yes	XJK68R	Yes	No	No	Yes
TNUWAN	Yes	No	No	Yes	XWCWPB	Yes	No	No	Yes
TP8LFM	Yes	No	No	Yes	XXL7FM	Yes	No	No	Yes
TUHGCI	Yes	No	No	Yes	XZQUYJ	Yes	No	No	Yes
TUYX7C	Yes	No	No	Yes	Y87R3W	Yes	No	No	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
YDTDEP	Yes	No	No	Yes					
YEN3GX	Yes	No	No	Yes					
YHLLFB	No Interpretations Reported, DNA Analyzed for Database purposes only.								
YKDFHL	Yes	No	No	Yes					
YKR74B	No Interpretations Reported, DNA Analyzed for Database purposes only.								
YMZCNQ	Yes	No	No	Yes					
YTM6VJ	Yes	No	No	Yes					
Z3U7UP	Yes	No	No	Yes					
ZGMZ3A	Yes	No	No	Yes					
ZL47Z6	Yes	No	No	Yes					
ZQVBUA	No Interpretations Reported, DNA Analyzed for Database purposes only.								
ZVRWMX	Yes	No	No	Yes					
ZW3Y8B	No Interpretations Reported, DNA Analyzed for Database purposes only.								

DNA Interpretation					
Response Summary			Participants reporting DNA results: 187		
<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 & 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		172	0	0	172
No		0	172	172	0
Inc		0	0	0	0
No Interpretation		0	0	0	0
No Response		0	0	0	0

Participants analyzing DNA for database purposes only: 15

Additional Comments

TABLE 5

WebCode	Additional Comments
238Z86	Only items 1 and 2 analyzed for databasing purposes.
2G69NJ	Probabilistic genotyping (STRmix) used for data analysis with stutter peaks unfiltered. Alleles comprising genotype combinations with total weightings of 99% or greater reported. NT = not tested. Q = possible allele dropout
2KLEME	Data for "DNA Analysis-Additional DNA" were generated using the PowerPlex Fusion kit. [Additional DNA results found to be concordant at a pre-existing locus are retained solely within the applicable tables.]
33FQB7	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is admitted that some stutter peaks can be recognized as true peaks. MiniFiler results were concordant with Identifiler Plus results.
3D4KPN	1. Item 1 and 2 were extracted using the in-situ extraction. 2. Item 3 were extracted using the Promega DNA IQ on Tecan Freedom EVO 150. 3. Item 4 were extracted using the Chelex Extraction method. 4. Item 3 and 4 were quantitated using Quantifiler Human DNA Quantitation Kit carried out by 7500 Real Time PCR. 5. Amplification was done using the AmpFISTR Identifiler Direct kit for Item 1 and 2, AmpFistr Identifiler Plus kit for Item 3 and 4, and AmpFISTR Y-Filer kit on Item 1 to 4. 6. Electrophoresis was carried out by Genetic Analyzer 3130XL. 7. Reagent Blank, Positive Control and Negative Control were carried out along with the analysis and all gave the intended results.
6AC7DH	Additional results for DYS391 obtained using PowerPlex Fusion. NR=No results [Additional DNA results found to be concordant at a pre-existing locus are retained solely within the applicable tables.]
6ATE7J	The probabilistic genotyping software STRmix® was used on this proficiency. We reported out all possible alleles generated in the Genotype Probability Distribution output files. A null allele was detected at the D13S317 locus using the Minifiler kit for Item 2 (suspect). The DNA extract was reamplified using the Minifiler kit, yielding the same results. The heterozygous Identifiler Plus results for D13S317 are listed on the data entry worksheet.
7FDUAG	The probabilistic genotyping software STRmix was used on this proficiency. We reported out all possible alleles generated in the Genotype Probability Distribution output files.
7KBDCF	STRmix genotyping probability software was used to determine possible genotype combinations. No stutter filters are used when using this software and it is recognized that some stutter peaks can be recognized as true peaks.
8EGNKA	N.D.: Not Detected.
8THFBK	NR=No results
8WDBRY	STR mix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is admitted that some stutter peaks can be recognized as true peaks.
8XTDX8	Data entered in "DNA Analysis - Additional DNA" section are based off of Powerplex Fusion results. [Additional DNA results found to be concordant at a pre-existing locus are retained solely within the applicable tables.]
94FH73	STRMix Probabilistic Genotyping Software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is admitted that some stutter peaks can be recognized as true peaks.
A93RT6	The DYS391 locus results listed in the Additional DNA section originate from the PowerPlex Fusion analysis. [Additional DNA results found to be concordant at a pre-existing locus are retained solely within the applicable tables.]
AE6Y99	Sperm fraction of item 4: Alleles in brackets are below laboratory's stochastic threshold, but above the analytical threshold (locus D3S1358, allele 18; locus CSF1PO, allele 10). Sample was re-extracted and consumed due to low quantity of sperm cells observed in sample.

TABLE 5

WebCode	Additional Comments
AE7VJ4	Item 1 was also analyzed through automation.
ATCMNW	The Globalfiler results for Yindel and DYS391 are recorded in the Yfiler results table for Items 1, 2, 3, and 4.
B2KWC2	Reporting note for Item # 1-4.1-E: The STR DNA profile is a mixture consistent with two contributors. A major female contributor was observed. The minor contributor is consistent with having originated from the sperm fraction of this item.
BMYG93	"DNA interpretations not reported; samples analyzed for database purposes only" pertains to Y samples only. Y samples were run for database/exemplar purposes only. No interpretation reported.
BX2G7F	The extract from Item 3 was tested for the presence of human blood using the ABACard HemaTrace test and human blood was detected. NOTE: the HemaTrace test is known to cross-react with some species of the Mustelidae family and with higher primates.
CEMMRE	NR = no result
CJDYMB	DYS391 results listed under Additional DNA section are PowerPlex Fusion results. "NR"=No Result. [Additional DNA results found to be concordant at a pre-existing locus are retained solely within the applicable tables.]
D3LLMA	DYS391 results in the Additional DNA section were developed using PowerPlex Fusion. [Additional DNA results found to be concordant at a pre-existing locus are retained solely within the applicable tables.]
DBYEWK	On Item 4, SP = semen extraction, BS = blood extraction. [BS moved to e]
EEUMH7	ITEM3: In the sample taken from the suspect's pants, the genetic profile of the victim, ITEM1, was found. ITEM4: In the sperm fraction of the sample taken from the suspect's underwear, the genetic profile of suspect, ITEM2, was found. In the cell fraction, a genetic profile of a female individual, who was unrelated, was found.
EFNC68	Results for DNA Analysis - Additional DNA for DYS391 are from PowerPlex Fusion 6C. [Additional DNA results found to be concordant at a pre-existing locus are retained solely within the applicable tables.]
ELUZMF	Epithelial fraction of Item 4 was not amplified with PowerPlex Y23 (NT=not tested).
EPW38B	1. Item 1 and Item 2 were amplified by using AmpFiSTR Identifiler Direct. 2. Item 3 was extracted using Promega DNA-IQ Purification Kit via TECAN Freedom EVO HID EVOLution Platform. 3. Item 4 was extracted using chelex extraction method. 4. Quantification was carried out by using Quantifiler Human DNA Quantification Kit. 5. Item 3 and Item 4 were amplified by using AmpFiSTR Identifiler Plus. 6. AmpFiSTR Yfiler was used for Y-STR analysis. 7. Reagent blank, positive and negative control were also incorporated.
F6LDTR	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is admitted that some stutter peaks can be recognized as true peaks. Additional comment: our lab uses Erase enzymatic digestion for our differential extraction. This is the second test I have taken where Erase does not work on your test. If you use frozen samples or samples diluted in water, the enzymatic digestion process will not work properly. If this can be taken into consideration when preparing future tests, that would be greatly appreciated.
GLQ683	NR = no results
H7AJ89	NT=Not tested
H9F4V9	Item # 1-4.1-E Fraction: AC=2, Major Female Profile, with minor profile consistent with carryover from the S Fraction. Victim (Item 1) and Suspect (Item 2) do not match the major female profile. Item # 1-4.1-S Fraction: AC=2, Major Male Profile, with minor profile consistent with carryover from the E Fraction. Suspect (Item 2) matches the major male profile. Victim (Item 1) does not match the major male profile. NR = No Results
HFDW43	STRmix genotyping probability software was used to determine possible genotype combinations. No stutter filters are used when using this software and it is recognized that some stutter peaks can be recognized as

TABLE 5

WebCode	Additional Comments
	true peaks.
HUWNN4	Additional DNA Results obtained using PowerPlex Fusion 5C. [Additional DNA results found to be concordant at a pre-existing locus are retained solely within the applicable tables.]
HUXC83	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for minus stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one minus stutter peak being included in the DNA Results tables.
HZ26GX	Data for locus DYS391 on Additional DNA results page produced using PowerPlex Fusion kit. [Additional DNA results found to be concordant at a pre-existing locus are retained solely within the applicable tables.]
JEW7AP	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is admitted that some stutter peaks can be recognized as true peaks.
JFB9K4	'DNA Result' = Inconclusive. (DNA Result) = Peak height intensity less than stochastic threshold Major contributor designated at all 16 loci for the e.cell fraction of Item 4.
JLHUC8	In 4x2 - additional peaks were seen below the analytical threshold in the trace minor component
KLUXFX	N.D.: Not Detected
LHTC4K	The probabilistic software STRmix was used on this proficiency. We reported out all possible alleles generated in the Genotype Probability Distribution output files.
LKVACT	Suspect (item 2) could be the contributor of the sp fraction of item 4. No Y profile for Item 4e, because it is a female.
LUPEN3	The probabilistic genotyping software STRmix was used on this proficiency. We reported out all possible alleles generated in the Genotype Probability Distribution output files.
M64PF6	4x1 - additional peaks were seen below the analytical threshold
M7VT3K	The probabilistic genotyping software STRmix® was used on this proficiency. We reported out all possible alleles generated in the Genotype Probability Distribution output files. [From Table 2 - YSTR Amplification Kits & Results: "e,epi=epithelial. sp=sperm. NR=no reaction"]
ME6D83	The probabilistic genotyping software STRmix® was used on this proficiency. We reported out all possible alleles generated in the Genotype Probability Distribution output files.
MW6694	1) In-situ extraction method was used to extract DNA from Item 1 and Item 2. 2) Chelex extraction method was used to extract DNA from Item 3 and Item 4. 3) DNA quantitation was carried out using the Quantifiler Human DNA Quantification Kit with Applied Biosystems Real Time Polymerase Chain Reaction (PCR) 7500 System. 4) Amplification of STR (Short Tandem Repeats) Genetic Loci was carried out using the AmpFISTR Identifiler Plus PCR Amplification Kit. 5) Amplification of Y-STR (Short Tandem Repeats) Genetic Loci was carried out using the AmpFISTR Y-Filer PCR Amplification Kit. 6) Capillary electrophoresis was carried out using the Applied Biosystems 3130xl Genetic Analyzer with GeneMapper ID Software. 7) Reagent blank, positive control and negative control were carried out throughout the analysis.
NB3WAY	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is admitted that some stutter peaks can be recognized as true peaks. Profiles (items 3 and 4EC and 4 SC) were analyzed using both Identifiler Plus and Minifiler kits. Allele calls from both kits were used so additional alleles may be present. Male screening interpretation, review and report writing was covered in this proficiency test.
NH32GH	The GlobalFiler results for Yindel and DYS391 are recorded in the YFiler results table for items 1, 2, 3 and 4.
NT3QYJ	The probabilistic genotyping software "STRmix" was used on this proficiency. We reported out all possible alleles generated in the genotype probability distribution output files.

TABLE 5

WebCode	Additional Comments
NZ29H2	STRmix Probabilistic Genotyping software was used to aid in the interpretation of DNA samples and requires turning the stutter filters off in GMID-X. Removing the stutter filter can result in extra peaks in stutter positions receiving an allele call. Additional allele calls in the sperm cell and epithelial cell fraction are the result of stutter peaks no longer being filtered from the profile. STRmix considers all genotype possibilities in a profile and occasionally stutter peaks can be recognized as true alleles. For the purpose of this test all possible genotypes were recorded.
PYN4DC	Item 4e (epithelial portion) at locus D7S820 allele 12 detected - elevated stutter.
Q7KBDW	The probabilistic genotyping software STRmix® was used on this proficiency. We reported out all possible alleles generated in the Genotype Probability Distribution output files.
QFPFDV	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for minus stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one minus stutter peak being included in the DNA Results tables. "N/A" in the DNA Results tables means the locus was not tested.
RMMDQV	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is admitted that some stutter peaks can be recognized as true peaks. Male screening was performed on items 3 and 4. Male screening interpretation, review, and report writing was covered in this proficiency test.
RNDH3E	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is admitted that some stutter peaks can be recognized as true peaks.
RT8HEP	Item 3, at D12S391 - Allele 24 at stutter position of allele 25 is approximately 14-15% of allele 25, which is above the lab's stutter value of 13.75%.
TKDRCT	The reported results for DYS391 listed in the Additional DNA section is from the amplification kit, PowerPlex Fusion. [Additional DNA results found to be concordant at a pre-existing locus are retained solely within the applicable tables.]
TUYX7C	Did not perform Y-STR analysis on Item 4 E-Cell b/c quantitation of male DNA was too low to expect reliable/repeatable results. Did not perform Y-STR analysis on the Sperm fraction of Item 4 because GF results indicated a single male donor, and it would not have been probative to testing; the sperm matched the 'suspect' and Item 4 was the 'suspect's underwear'.
TXGCLR	1. The victim (Item 1) is not excluded as the source of the blood sample detected in the suspect's pants (item 3). 2. The suspect (Item 2) is not excluded as the source of the spermatic cells detected in the spermatic fraction of the blood and semen mixture stain in the suspect's underwear (Item 4). 3. An unknown female is not excluded as the source of the cells in the epithelial fraction of the blood and semen mixture stain in the suspect's underwear (Item 4).
TZP49T	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modeling for minus stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one minus stutter peak being included in the DNA Results tables.
U3M77T	The data for locus DYS391 on the additional DNA page was produced using the PowerPlex Fusion kit. NR= No Results [Additional DNA results found to be concordant at a pre-existing locus are retained solely within the applicable tables.]
U3PTPT	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is admitted that some stutter peaks can be recognized as true peaks. Male screening was performed on this CTS. Male screening interpretation, review, and report writing was covered in this proficiency test.
UB3M6U	"The probabilistic genotyping software STRmix was used on this proficiency. We reported out all possible alleles generated in the Genotype Probability Distribution output files."

TABLE 5

WebCode	Additional Comments
VLGYXJ	"DNA interpretations not reported, samples analyzed for database purposes only" box checked applies to Y data interpretation. Y exemplars were analyzed for database/exemplar purposes.
WJMTQR	The probabilistic genotyping software STRmix® was used on this proficiency. We reported out all possible alleles generated in the Genotype Probability Distribution output files.
WK4UTT	1) Item 1 and Item 2 were amplified using AmpFiSTR Identifiler Direct Kit. 2) Item 3 and Item 4 was extracted using the Chelex method and quantification was carried out using the Quantifiler Human DNA Quantification Kit. 3) Item 3 and Item 4 were amplified using the AmpFiSTR Identifiler Plus Kit. 4) Y-STR analysis was carried out on Item 1, Item 2, Item 3 and Item 4 using the AmpFiSTR YFiler Kit. 5) Electrophoresis process were carried out by Genetic Analyzer 3130xl for Item 1, Item 2, Item 3 and Item 4. 6) Reagent Blank, Positive and Negative Control were also incorporated throughout the analysis.
WY3ZK4	Foreign female profile on Item 4.
XJK68R	KM test carried out on items 3 and 4. Both were KM positive. Sperm elution performed on item 4 (AP positive at 12 seconds): 2+/3+ Heads; no epithelial cells detected.
XWCWPB	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is admitted that some stutter peaks can be recognized as true peaks.
YDTDEP	The probabilistic genotyping software STRmix was used on this proficiency. We reported out all possible alleles generated in the Genotype Probability Distribution output files.
YMZCNQ	Items 3A and 4A were tested for the presence of human blood using the HemaTrace test. Human blood was confirmed. Testing for the presence of human blood is performed with the ABACard HemaTrace Kit. This kit is known to cross react with some species of the Mustelidae family and with higher primates. NT: Not tested.
Z3U7UP	1. Item 1 and Item 2 were extracted using in-situ method and amplified using Identifiler Direct in the 9700 thermal cyclers. 2. Item 3 and Item 4 were extracted using chelex extraction method and quantified using Quantifiler Human DNA quantitation kit and carried out by 7500 Real Time PCR. Amplification was done using AmpFISTR Identifiler Plus Kit. 3. Item 1, Item 2, Item 3 and Item 4 were amplified using YFiler Kit in the 9700 thermal cyclers. 4. All electrophoresis process were carried out by Genetic Analyzer 3130xl. 5. Reagent blank, positive control and negative control were carried out along with the analysis and all gave the intended results.
ZGMZ3A	STRMix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is admitted that some stutter peaks can be recognized as true peaks.

Appendix: Data Sheet

Collaborative Testing Services ~ Forensic Testing Program

Test No. 17-5802: DNA-Semen

DATA MUST BE RECEIVED BY May 8, 2017 TO BE INCLUDED IN THE REPORT

Participant Code:

WebCode:

Accreditation Release Statement

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

- This participant's data is intended for submission to ASCLD/LAB, ANAB, and/or A2LA. (Accreditation Release section on the last page must be completed and submitted.)
- This participant's data is **NOT** intended for submission to ASCLD/LAB, ANAB or A2LA.

Scenario:

Police are investigating the sexual assault of a male victim who was possibly drugged and assaulted at a nightclub. The victim has no recollection of the events, but did note that upon regaining consciousness there was dried blood on his face and shirt from an apparent nosebleed. When reporting the incident to the police, the victim provided the investigators smartphone photos and the contact information of a male he believed to be responsible for the possible assault. Upon interviewing the suspect, the suspect claimed that the victim was so drunk that he collapsed at the bar, hitting his nose on the bar rail resulting in the nosebleed. The suspect claims he helped the unconscious victim to a booth where he made sure he was safe, and then left him alone. The investigators noted reddish stains on the suspect's pants, and requested the suspect's clothing for examination. Additional reddish stains were noted on the inside front of the suspect's underwear. Investigators are now submitting stains from the suspect's pants (Item 3) and from the suspect's underwear (Item 4) for additional testing. Screening has been performed on both samples with the following results: Item 3 (the suspect's pants) is positive for blood, and Item 4 (the suspect's underwear) is positive for blood and semen. The screening lab is submitting these samples (Items 3 and 4) along with the known blood samples of the male victim and male suspect.

Items Submitted (Sample Pack S2):

- Item 1: Known blood from the male victim
- Item 2: Known blood from the male suspect
- Item 3: Questioned blood from the suspect's pants (black/white plaid material)
- Item 4: Questioned blood and semen mixture from the suspect's underwear (light blue patterned material)

Please return all pages of this data sheet.

Page 1 of 8

Part II: DNA ANALYSIS

DNA Analysis Instructions:

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

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

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

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

The data sheet has been updated to include the GlobalFiler™ and PowerPlex® Fusion amplification kits. The sheet has also been updated to include the Next Generation Sequencing Kit ForenSeq™ and the associated STR and YSTR loci.

The YSTR section has also been expanded to include all of the YFiler® Plus loci.

For the amplification kits that contain both STR and YSTR loci, please select the corresponding kit in the YSTR sections, and enter the loci for that section.

If a locus is not listed on the following pages of this data sheet, use the "Additional DNA Results" table below to report those results.

Additional DNA Results:

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

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

Please return all pages of this data sheet.

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

STR Amplification Kit(s) Used For Item 1: Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e.16, Direct, etc.).

COfiler®/Profiler Plus®
 Identifiler® _____
 PowerPlex® _____
 GlobalFiler™ _____
 ForenSeq™
 Other _____

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

YSTR Amplification Kit(s) Used For Item 1: Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e.Plus, 23, etc.).

Yfiler® _____
 GlobalFiler™
 PowerPlex® Fusion _____
 PowerPlex® Y _____
 ForenSeq™
 Other _____

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

Please return all pages of this data sheet.

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

STR Amplification Kit(s) Used For Item 2: Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e.16, Direct, etc.).

COfiler®/Profiler Plus®
 Identifiler® _____
 PowerPlex® _____
 GlobalFiler™ _____
 ForenSeq™
 Other _____

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

YSTR Amplification Kit(s) Used For Item 2: Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e.Plus, 23, etc.).

Yfiler® _____
 GlobalFiler™
 PowerPlex® Fusion _____
 PowerPlex® Y _____
 ForenSeq™
 Other _____

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

Please return all pages of this data sheet.

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

STR Amplification Kit(s) Used For Item 3: Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Direct, etc.).

COfiler®/Profiler Plus®
 Identifiler® _____
 PowerPlex® _____
 GlobalFiler™ _____
 ForenSeq™
 Other _____

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

YSTR Amplification Kit(s) Used For Item 3: Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

Yfiler® _____
 GlobalFiler™
 PowerPlex® Fusion _____
 PowerPlex® Y _____
 ForenSeq™
 Other _____

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

Please return all pages of this data sheet.

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

STR Amplification Kit(s) Used For Item 4: Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Direct, etc.).

COfiler®/Profiler Plus®
 Identifiler® _____
 PowerPlex® _____
 GlobalFiler™ _____
 ForenSeq™
 Other _____

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

YSTR Amplification Kit(s) Used For Item 4: Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

Yfiler® _____
 GlobalFiler™
 PowerPlex® Fusion _____
 PowerPlex® Y _____
 ForenSeq™
 Other _____

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

Please return all pages of this data sheet.

Part III: 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="checkbox"/>	<input type="checkbox"/>	Yes <input type="checkbox"/>	<input type="checkbox"/>
No <input type="checkbox"/>	<input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>
Inconclusive <input type="checkbox"/>	<input type="checkbox"/>	Inconclusive <input type="checkbox"/>	<input type="checkbox"/>
No Interpretation <input type="checkbox"/>	<input type="checkbox"/>	No Interpretation <input type="checkbox"/>	<input type="checkbox"/>

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

Part IV: ADDITIONAL COMMENTS

Comments regarding any part of this Forensic Biology Test.

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

Note: Laboratories submitting their results for ASCLD/LAB accreditation are asked to report any additional information that will assist in the review of their results. This includes an explanation of any deviations from a full completion of the test and/or unique findings such as elevated stutter.

<u>Return Instructions:</u> Data must be received via online data entry, fax (please include a cover sheet), or mail by May 08, 2017 to be included in the report. Emailed data sheets are not accepted.		ONLINE DATA ENTRY: www.cts-portal.com
QUESTIONS?	TEL: +1-571-434-1925 (8 am - 4:30 pm EST)	FAX: +1-571-434-1937
EMAIL: forensics@cts-interlab.com www.ctsforensics.com	MAIL: Collaborative Testing Services, Inc. P.O. Box 650820 Sterling, VA 20165-0820 USA	

Please return all pages of this data sheet.

Collaborative Testing Services ~ Forensic Testing Program

RELEASE OF DATA TO ACCREDITATION BODIES

The following Accreditation Releases will apply only to:

Participant Code:

WebCode:

for Test No. **17-5802: DNA-Semen**

This release page must be completed and received by **May 8, 2017** to have this participant's submitted data included in the reports forwarded to the respective Accreditation Bodies.

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

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

ASCLD/LAB Certificate No. _____

ANAB Certificate No. _____

A2LA Certificate No. _____

Step 2: Complete the Laboratory Identifying Information in its entirety

Signature and Title _____

Laboratory Name _____

Location (City/State) _____

Accreditation Release	
<u>Return Instructions</u>	
<i>Please submit the completed Accreditation Release at the same time as your full data sheet. See Data Sheet Return Instructions on the previous page.</i>	<i>Questions? Contact us 8 am-4:30 pm EST Telephone: +1-571-434-1925 email: forensics@cts-interlab.com</i>

Please return all pages of this data sheet.