



DNA - Semen Test No. 14-584 Summary Report

This proficiency test was sent to 192 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 169 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 clean, white cloth (Items 1 & 2), and two questioned stains one on clean, light yellow material (Item 3) and one on clean, 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 bloodbank bags or EDTA tubes. Item 4 was a mixture prepared from human whole blood and semen. The semen, procured from a cryobank, was from a single donor, but stored frozen in multiple vials at -196°C in liquid nitrogen tanks. The semen was thawed and first mixed 1:1 with TAE buffer, then mixed 1:1 with the blood. This mixture was used to spot the Item 4 substrate. Items 1 ($50\ \mu\text{l}$) and 3 ($50\ \mu\text{l}$) were blood collected from one female donor and Item 2 ($50\ \mu\text{l}$) was blood collected from a male donor. Item 4 ($50\ \mu\text{l}$) was a mixture containing the blood from the Item 1 female donor and semen collected from the Item 2 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 June 30, 2014 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 Marvel Heat Seal envelopes and sealed. This process was repeated until all of the sample sets were prepared.

Amelogenin and STR Results

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

Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
1	12,15 11,14 12,16.2 8,13	17,19 14,15 30,35 12,14	10,11 18,20 16,17 14,22	14,17 8,12 X,X 9,9.3	12,13 11,11 10,10 8,9	8,10 12,17 20,23 15,17
2	11,15 11,16 15.2,16 9,13	23,25 12,15 28,31.2 11,15	11,14 19,22 15,15 29.2,30.2	15,16 8,12 X,Y 9,10	11,12 12,12 11,12 8,11	9,11 15,17 20,21 14,17
3	12,15 11,14 12,16.2 8,13	17,19 14,15 30,35 12,14	10,11 18,20 16,17 14,22	14,17 8,12 X,X 9,9.3	12,13 11,11 10,10 8,9	8,10 12,17 20,23 15,17
4-Blood	12,15 11,14 12,16.2 8,13	17,19 14,15 30,35 12,14	10,11 18,20 16,17 14,22	14,17 8,12 X,X 9,9.3	12,13 11,11 10,10 8,9	8,10 12,17 20,23 15,17
4-Semen	11,15 11,16 15.2,16 9,13	23,25 12,15 28,31.2 11,15	11,14 19,22 15,15 29.2,30.2	15,16 8,12 X,Y 9,10	11,12 12,12 11,12 8,11	9,11 15,17 20,21 14,17

YSTR Results

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

Item	DYS19 DYS437 DYS549	DYS385 DYS438 DYS570	DYS389-I DYS439 DYS576	DYS389-II DYS448 DYS635	DYS390 DYS456 DYS643	DYS391 DYS458 Y GATA H4	DYS392 DYS481 Y Indel	DYS393 DYS533
2	14 15 12	11,13 12 17	13 13 18	29 18 23	24 16 10	11 17 12	14 24 *	13 13
4-Semen	14 15 12	11,13 12 17	13 13 18	29 18 23	24 16 10	11 17 12	14 24 *	13 13

* Results were not received from a minimum of 10 participants for the YSTR locus 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 where screening has already been completed. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Items 1 and 3 were blood collected from one female donor and Item 2 was blood collected from a male donor. Item 4 was a mixture containing the blood from the Item 1 female donor and semen collected from the Item 2 donor. (See Manufacturer's Information for preparation details)

Of the 169 responding, 167 participants reported DNA interpretations. All of these participants included the victim (Item 1) and excluded the suspect (Item 2) as a possible contributor to the Item 3 stain. There were 160 participants that included the victim (Item 1) as a possible contributor to the Item 4 mixture, five that excluded the victim, one that reported inconclusive and the remaining participant did not report a response. There were 166 participants that included the suspect (Item 2) as a possible contributor to the Item 4 mixture and one participant that reported inconclusive.

Seventeen participants reported allelic results that were inconsistent with the consensus/predistribution results. Nine participants reported additional alleles at one or more loci. Six participants were missing alleles at one or more loci and two participants reported an inconsistent allele at a locus.

STR Results

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 1

26J3JJ	PowerPlex® 16 HS, NGM SElect						
	1	12,15	17,19	10,11	14,17	12,13	8,10
		11,14	14,15	18,20	8,12	11	12,17
		12,16.2	30,35	16,17	X	10	20,23
		8,13	12,14	14,22	9,9.3	8,9	15,17
2FBGQV	Identifiler® Plus						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
2GW63V	Identifiler®						
	1	N/A	17,19	N/A	14,17	12,13	8,10
		11,14	N/A	N/A	8,12	11,11	12,17
		12,16.2	30,35	N/A	X,X	10,10	20,23
		N/A	N/A	N/A	9,9.3	8,9	15,17
2M7N2N	Identifiler® Plus						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
2QACPQ	Identifiler® Plus						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
34C37P	Identifiler® Plus						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
34PWK4	PowerPlex® 16						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
393CE3	Identifiler® Plus						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
39HWWE	PowerPlex® 16						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
3H9G3C	PowerPlex® 16						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
47DQWY	PowerPlex® 16 HS						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
483WEA	Identifiler®						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
4BQ7QW	PowerPlex® 16						
	1				14,17	12,13	8,10
		11,14			8,12	11,11	12,17
			30,35		X,X	10,10	20,23
		8,13	12,14		9,9.3	8,9	15,17
4YU8TY	PowerPlex® 16						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
4ZPPWL	COfiler® and Profiler Plus®						
	1				14,17	12,13	8,10
		11,14			8,12		12,17
			30,35		X,X		20,23
							15,17
638JUX	Identifiler® Plus						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
7FR7VJ	Identifiler® Plus						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
7RMDXU	PowerPlex® 16 HS						
	1				14,17	12,13	8,10
		11,14			8,12	11,11	12,17
			30,35		X,X	10,10	20,23
		8,13	12,14		9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
8GKCVA	PowerPlex® 16						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
8UKD9B	ESX16						
	1	12,15	17,19	10,11	14,17		
		11,14	14,15	18,20		11	12,17
		12,16.2	30,35	16,17	X		20,23
					9,9.3		15,17
9237XF	Identifiler®						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
97D4MM	Identifiler®						
	1	NA	17,19	NA	14,17	12,13	8,10
		11,14	NA	NA	8,12	11	12,17
		12,16.2	30,35	NA	X	10	20,23
		NA	NA	NA	9,9.3	8,9	15,17
9AGR7J	Identifiler® Plus						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
9BPAYN	Identifiler®						
	1	N/A	17,19	N/A	14,17	12,13	8,10
		11,14	N/A	N/A	8,12	11,11	12,17
		12,16.2	30,35	N/A	X,X	10,10	20,23
		N/A	N/A	N/A	9,9.3	8,9	15,17
9FKUAY	PowerPlex® 16						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
9KUC8R	Identifiler® Plus						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
9N2CQD	Identifiler® Plus						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
		D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
		D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
		Penta D	Penta E	SE33	TH01	TPOX	vWA
Item 1							
9R2GKK	<i>Identifiler®</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
9VWBHL	<i>COfiler® and Profiler Plus®</i>						
	1				14,17	12,13	8,10
		11,14			8,12	11,11	12,17
			30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
A6EB9F	<i>Identifiler® Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
AADPW6	<i>PowerPlex® 16</i>						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
AFCJLQ	<i>PowerPlex® 16 HS, ESI 17 PRO</i>						
	1	12,15	17,19	10,11	14,17	12,13	8,10
		11,14	14,15	18,20	8,12	11,11	12,17
		12,16.2	30,35	16,17	X,X	10,10	20,23
		8,13	12,14	14,22	9,9.3	8,9	15,17
AFFWDT	<i>Identifiler® Identifiler Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
AG72PD	<i>Profiler Plus</i>						
	1				14,17	12,13	8,10
		11,14			8,12		12,17
			30,35		X,X		20,23
							15,17
AL4GGA	<i>Identifiler Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
AUYJMR	<i>PowerPlex® 16</i>						
	1				14,17	12,13	8,10
		11,14			8,12	11,11	12,17
			30,35		X,X	10,10	20,23
		8,13	12,14		9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
B9UZB4	<i>Identifiler®</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
B9VXKZ	<i>PowerPlex® 16</i>						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
BMWRR3	<i>PowerPlex® 16 HS</i>						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
BN4AQX	<i>PowerPlex® 16</i>						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
BPXZWD	<i>Identifiler®</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
BVBD3R	<i>Identifiler®</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
BWJWHE	<i>Identifiler® Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
BYARQG	<i>Identifiler® Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
C368CA	<i>Identifiler®</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
C3JGHP	PowerPlex® HS, EXS[sic]						
	1	12,15 11,14 12,16.2 8,13	17,19 14,15 30,35 12,14	10,11 18,20 16,17 14,22	14,17 8,12 X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
C4YQFW	PowerPlex® 16						
	1				14,17 8,12 X,X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
C8E9QL	Identifiler®						
	1	N/A 11,14 12,16.2 N/A	17,19 N/A 30,35 N/A	N/A N/A N/A N/A	14,17 8,12 X,X 9,9.3	12,13 11,11 10,10 8,9	8,10 12,17 20,23 15,17
C999C4	PowerPlex® 16						
	1				14,17 8,12 X,X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
C9TTGB	COfiler® and Profiler Plus®						
	1				14,17 8,12 X,X	12,13	8,10 12,17 20,23 15,17
CEFDPX	PowerPlex® 16						
	1				14,17 8,12 X,X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
D3JN9N	Identifiler® Plus						
	1		17,19		14,17 8,12 X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
DRYHCK	Identifiler®						
	1		17,19		14,17 8,12 X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
DU7Z9U	PowerPlex® 16						
	1				14,17 8,12 X,X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
DYWEQA	COfiler® and Profiler Plus®						
	1				14,17	12,13	8,10
	11,14				8,12		12,17
			30,35		X,X		20,23
							15,17
E3GGGF	COfiler® and Profiler Plus®						
	1				14,17	12,13	8,10
	11,14				8,12	11,11	12,17
			30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
E7ZD77	Identifiler® Plus						
	1		17,19		14,17	12,13	8,10
	11,14				8,12	11	12,17
	12,16.2		30,35		X	10	20,23
					9,9.3	8,9	15,17
EADJG7	Identifiler® Plus						
	1		17,19		14,17	12,13	8,10
	11,14				8,12	11	12,17
	12,16.2		30,35		X	10	20,23
					9,9.3	8,9	15,17
EE6MBA	PowerPlex® 21						
	1	12,15	17,19		14,17	12,13	8,10
		11,14		18,20	8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
		8,13	12,14		9,9.3	8,9	15,17
EFMJWH	PowerPlex® 21						
	1	12,15	17,19	-	14,17	12,13	8,10
		11,14	-	18,20	8,12	11,11	12,17
		12,16.2	30,35	-	X,X	10,10	20,23
		8,13	12,14	-	9,9.3	8,9	15,17
ELMXJ6	Identifiler® Plus						
	1	N/A	17,19	N/A	14,17	12,13	8,10
		11,14	N/A	N/A	8,12	11	12,17
		12,16.2	30,35	N/A	X	10	20,23
		N/A	N/A	N/A	9,9.3	8,9	15,17
ENUFFF	Identifiler® Plus						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X,X	10	20,23
					9,9.3	8,9	15,17
EUMDBX	Identifiler®						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
EZPP23	<i>PowerPlex® Fusion, NGM Select</i>						
	1	12,15 11,14 12,16.2 8,13	17,19 14,15 30,35 12,14	10,11 18,20 16,17 14,22	14,17 8,12 X,X 9,9.3	12,13 11,11 10,10 8,9	8,10 12,17 20,23 15,17
FB2EDD	<i>Identifiler® Plus</i>						
	1	- 11,14 12,16.2 -	17,19 - 30,35 -	- - - -	14,17 8,12 X,X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
FFW6KA	<i>Identifiler®</i>						
	1	- 11,14 12,16.2	17,19 - 30,35	- - -	14,17 8,12 X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
FHMC4L	<i>PowerPlex® 16</i>						
	1	- 11,14 - 8,13	- - 30,35 12,14	- - - -	14,17 8,12 X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
FJKF24	<i>Identifiler® Plus</i>						
	1	- 11,14 12,16.2	17,19 - 30,(34),35	- - -	14,17 8,12 X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
FMYBJL	<i>Identifiler®</i>						
	1	- 11,14 12,16.2	17,19 - 30,35	- - -	14,17 8,12 X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
FNTXXB	<i>COfiler® and Profiler Plus®</i>						
	1	- 11,14 - 8,13	- - 30,35 -	- - - -	14,17 8,12 X,X 9,9.3	12,13 11,11 10,10 8,9	8,10 12,17 20,23 15,17
G7QFM7	<i>PowerPlex® 21</i>						
	1	12,15 11,14 12,16.2 8,13	17,19 - 30,35 12,14	18,20 - -	14,17 8,12 X,X 9,9.3	12,13 11,11 10,10 8,9	8,10 12,17 20,23 15,17
G83DWG	<i>Identifiler® Plus</i>						
	1	- 11,14 12,16.2	17,19 - 30,35	- - -	14,17 8,12 X,X 9,9.3	12,13 11,11 10,10 8,9	8,10 12,17 20,23 15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
GAM67X	<i>Identifiler® Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
GHKWC8	<i>Identifiler®</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
GQVYZT	<i>PowerPlex® 16</i>						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
GTX47L	<i>PowerPlex® 16</i>						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
GUV844	<i>Identifiler® Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
GW2UG8	<i>Identifiler®</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
GXWBU6	<i>Identifiler®</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
H4E4KU	<i>Identifiler®</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
H7KTGC	<i>Identifiler®</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
HDJBZU	<i>Identifiler®</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
HJTBE7	<i>Identifiler® Plus, PowerPlex® PP16 HS, ESX-CS7</i>						
	1	12,15	17,19	10,11	14,17	12,13	8,10
		11,14	14,15	18,20	8,12	11	12,17
		12,16.2	30,35	16,17	X,X	10	20,23
		8,13	12,14	14,22	9,9.3	8,9	15,17
HWV2W6	<i>Identifiler®</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
J88Q9F	<i>Identifiler® Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
KGFG6	<i>Identifiler® Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
KZ9J97	<i>Identifiler® Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
L2ZXCA	<i>Identifiler® Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
L6XDMJ	<i>Identifiler® Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
LFYNA9	<i>PowerPlex® 16</i>						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
LG8X36	<i>Identifiler Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
LRR772	<i>Identifiler Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
LT2ER7	<i>Identifiler® Plus</i>						
	1	-	17,19	-	14,17	12,13	8,10
		11,14	-	-	8,12	11	12,17
		12,16.2	30,35	-	X,X	10	20,23
		-	-	-	9,9.3	8,9	15,17
ML366E	<i>COfiler® and Profiler Plus®</i>						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X	10	20,23
					9,9.3	8,9	15,17
MVNDKV	<i>Identifiler® Plus, NGM Select</i>						
	1	12,15	17,19	10,11	14,17	12,13	8,10
		11,14	14,15	18,20	8,12	11,11	12,17
		12,16.2	30,35	16,17	X,X	10,10	20,23
				14,22	9,9.3	8,9	15,17
NA7GN6	<i>Identifiler® Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
NBDJQ4	<i>Identifiler®</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
NJTCP7	<i>COfiler® and Profiler Plus®</i>						
	1	-	-	-	14,17	12,13	8,10
		11,14	-	-	8,12	11,11	12,17
		-	30,35	-	X,X	10,10	20,23
		-	-	-	9,9.3	8,9	15,17
NTG9PL	<i>PowerPlex® 16</i>						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
NVJ9PJ	PowerPlex® 16						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
NYKYAC	Identifiler®						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
P2N6B4	Identifiler® Plus						
	1	-	17,19	-	14,17	12,13	8,10
		11,14	-	-	8,12	11,11	12,17
		12,16.2	30,35	-	X,X	10,10	20,23
		-	-	-	9,9.3	8,9	15,17
PC626A	PowerPlex® Fusion						
	1	12,15	17,19	10,11	14,17	12,13	8,10
		11,14	14,15	18,20	8,12	11	12,17
		12,16.2	30,35	16,17	X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
PDKB63	Identifiler® Plus						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
PHW9Q4	Identifiler® Plus						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X,X	10	20,23
					9,9.3	8,9	15,17
PYXB42	PowerPlex® 16 HS, Globalfiler						
	1	12,15	17,19	10,11	14,17	12,13	8,10
		11,14	14,15	18,20	8,12	11,11	12,17
		12,16.2	30,35	16,17	X,X	10,10	20,23
		8,13	12,14	14,22	9,9.3	8,9	15,17
Q7D8R9	PowerPlex® 16						
	1				14,17	12,13	8,10
		11,14			8,12	11,11	12,17
			30,35		X,X	10,10	20,23
		8,13	12,14		9,9.3	8,9	15,17
QADFWJ	PowerPlex® 16						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 1

QCCLPQ2	COfiler® and Profiler Plus®						
	1				14,17	12,13	8,10
		11,14			8,12	11,11	12,17
			30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
QMHH8	Identifiler®						
	1	N/A	17,19	N/A	14,17	12,13	8,10
		11,14	N/A	N/A	8,12	11,11	12,17
		12,16.2	30,35	N/A	X,X	10,10	20,23
		N/A	N/A	N/A	9,9.3	8,9	15,17
QP9ZD8	Identifiler® Plus						
	1	-	17,19	-	14,17	12,13	8,10
		11,14	-	-	8,12	11,11	12,17
		12,16.2	30,35	-	X,X	10,10	20,23
		-	-	-	9,9.3	8,9	15,17
QTNANP	PowerPlex® 16						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
QYB3UX	Profiler Plus						
	1				14,17	12,13	8,10
		11,14			8,12		12,17
			30,35		X,X		20,23
							15,17
R2BRBW	COfiler® and Profiler Plus® Profiler Plus						
	1				14,17	12,13	8,10
		11,14			8,12		12,17
			30,35		X,X		20,23
							15,17
R42YU9	PowerPlex® 16						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
RDCXP6	Goldeneye 20A						
	1		17,19		14,17	12,13	8,10
		11,14		18,20	8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
		8,13	12,14		9,9.3	8,9	15,17
RHPV2X	Identifiler®						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 1

RPMLM9	<i>Identifiler® Identifiler Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
TBGUFU	<i>PowerPlex® PP21</i>						
	1	12,15	17,19		14,17	12,13	8,10
		11,14		18,20	8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
		8,13	12,14		9,9.3	8,9	15,17
TCRW3T	<i>Identifiler® Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
TDMF7F	<i>PowerPlex® 16</i>						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
TUCKDA	<i>PowerPlex® 16</i>						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
TUV79K	<i>Identifiler®</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
TW2RWK	<i>PowerPlex® PowerPlex® 16 HS</i>						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
U8EF24	<i>Identifiler®</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
UEWQF6	<i>PowerPlex® Fusion</i>						
	1	12,15	17,19	10,11	14,17	12,13	8,10
		11,14	14,15	18,20	8,12	11	12,17
		12,16.2	30,35	16,17	X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 1

UFR8R2	<i>Identifiler®</i>						
	1	N/A	17,19	N/A	14,17	12,13	8,10
		11,14	N/A	N/A	8,12	11,11	12,17
		12,16.2	30,35	N/A	X,X	10,10	20,23
		N/A	N/A	N/A	9,9.3	8,9	15,17
UNJMG6	<i>Identifiler® Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
UPW8B2	<i>COfiler® and Profiler Plus®</i>						
	1				14,17	12,13	8,10
		11,14			8,12	11,11	12,17
			30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
UY7LAW	<i>Profiler Plus</i>						
	1				14,17	12,13	8,10
		11,14			8,12		12,17
			30,35		X,X		20,23
							15,17
UYMTGY	<i>COfiler® and Profiler Plus®</i>						
	1				14,17	12,13	8,10
		11,14			8,12	11,11	12,17
			30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
V7YFKZ	<i>Identifiler® Plus</i>						
	1	-	17,19	-	14,17	12,13	8,10
		11,14	-	-	8,12	11	12,17
		12,16.2	30,35	-	X,X	10	20,23
		-	-	-	9,9.3	8,9	15,17
V94W24	<i>Identifiler® Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
VBCC7N	<i>INDENTIFILER[sic] Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,(34),35		X	10	20,23
					9,9.3	8,9	15,17
VEBM4A	<i>Identifiler® Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 1

VGGVPM	NGM Select						
	1	12,15 11,14 12,16.2	17,19 14,15 30,35	10,11 18,20 16,17 14,22	14,17 X,X 9,9.3	11,11	12,17 20,23 15,17
VHVFFC	PowerPlex® 16						
	1	11,14 8,13	30,35 12,14		14,17 8,12 X,X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
VMK236	PowerPlex® 16 HS, NGM SElect						
	1	12,15 11,14 12,16.2 8,13	17,19 14,15 30,35 12,14	10,11 18,20 16,17 14,22	14,17 8,12 X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
VPG9UW	Identifiler Plus						
	1	11,14 12,16.2	17,19 30,35		14,17 8,12 X,X 9,9.3	12,13 11,11 10,10 8,9	8,10 12,17 20,23 15,17
VPVYFM	NGM Select						
	1	12,15 11,14 12,16.2 -	17,19 14,15 30,35 -	10,11 18,20 16,17 14,22	14,17 - X,X 9,9.3	- 11,11 - -	- 12,17 20,23 15,17
W2F8V	Identifiler®						
	1	11,14 12,16.2	17,19 30,35		14,17 8,12 X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
VWFXB2	COfiler® and Profiler Plus®						
	1	- 11,14 - -	- - 30,35 -	- - - -	14,17 8,12 X,X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
VYF93U	Identifiler®						
	1	11,14 12,16.2	17,19 30,35		14,17 8,12 X,X 9,9.3	12,13 11,11 10,10 8,9	8,10 12,17 20,23 15,17
W2PF6M	Identifiler Plus						
	1	11,14 12,16.2	17,19 30,35		14,17 8,12 X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
W6JG3V	Identifiler®						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
W8P2QV	Identifiler®						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
WCZ3VZ	Identifiler®						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
WEMQ8Z	Identifiler®						
	1	N/A	17,19	N/A	14,17	12,13	8,10
		11,14	N/A	N/A	8,12	11,11	12,17
		12,16.2	30,35	N/A	X,X	10,10	20,23
		N/A	N/A	N/A	9,9.3	8,9	15,17
WJMV8Y	COfiler® and Profiler Plus®						
	1	-	-	-	14,17	12,13	8,10
		11,14	-	-	8,12	11,11	12,17
		-	30,35	-	X,X	10,10	20,23
		-	-	-	9,9.3	8,9	15,17
WM7MJ3	PowerPlex® 16 HS						
	1				14,17	12,13	8,10
		11,14			8,12	11,11	12,17
			30,35		X,X	10,10	20,23
		8,13	12,14		9,9.3	8,9	15,17
WRAZU6	PowerPlex® 16						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
WZ9FMJ	PowerPlex® 16						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
X7PJ4K	Identifiler® Plus, PowerPlex® Fusion & ESI_17						
	1	12,15	17,19	10,11	14,17	12,13	8,10
		11,14	14,15	18,20	8,12	11,11	12,17
		12,16.2	30,35	16,17	X,X	10,10	20,23
		8,13	12,14	14,22	9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 1

XADQRN	<i>Identifiler®</i>	1	17,19		14,17	12,13	8,10	
			11,14		8,12	11	12,17	
			12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17	
XKATWH	<i>Identifiler® Plus</i>	1	17,19		14,17	12,13	8,10	
			11,14		8,12	11,11	12,17	
			12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17	
Y4D48Y	<i>Identifiler®</i>	1	17,19		14,17	12,13	8,10	
			11,14		8,12	11,11	12,17	
			12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17	
YHY9N8	<i>Identifiler Plus</i>	1	17,19		14,17	12,13	8,10	
			11,14		8,12	11,11	12,17	
			12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17	
YK8JF6	<i>Identifiler® Plus</i>	1	17,19		14,17	12,13	8,10	
			11,14		8,12	11,11	12,17	
			12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17	
YLFLH4	<i>PowerPlex® 16</i>	1			14,17	12,13	8,10	
			11,14		8,12	11	12,17	
				30,35		X	10	20,23
			8,13	12,14		9,9.3	8,9	15,17
YVMH2Z	<i>Identifiler® Plus</i>	1	17,19		14,17	12,13	8,10	
			11,14		8,12	11	12,17	
			12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17	
YZJYKL	<i>Identifiler® Identifiler Plus</i>	1	17,19		14,17	12,13	8,10	
			11,14		8,12	11	12,17	
			12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17	
Z69WN3	<i>Identifiler® Plus</i>	1	17,19		14,17	12,13	8,10	
			11,14		8,12	11,11	12,17	
			12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17	

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
Z98CYC	<i>Identifiler®</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
ZBVLBX	<i>Identifiler® Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
ZF8JWZ	<i>Identifiler® Plus</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
ZHV9ZD	<i>PowerPlex® 16 HS</i>						
	1				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
ZN6AFP	<i>COfiler® and Profiler Plus® 10</i>						
	1				14,17	12,13	8,10
		11,14			8,12		12,17
			30,35		X,X		20,23
							15,17
ZWETHL	<i>Identifiler®</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
ZWEV9P	<i>Identifiler®</i>						
	1		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 2

26J3JJ	PowerPlex® 16 HS, NGM SElect						
	2	11,15	23,25	11,14	15,16	11,12	9,11
		11,16	12,15	19,22	8,12	12	15,17
		15.2,16	28,31.2	15	X,Y	11,12	20,21
		9,13	11,15	29.2,30.2	9,10	8,11	14,17
2FBGQV	Identifiler® Plus						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
2GW63V	Identifiler®						
	2	N/A	23,25	N/A	15,16	11,12	9,11
		11,16	N/A	N/A	8,12	12,12	15,17
		15.2,16	28,31.2	N/A	X,Y	11,12	20,21
		N/A	N/A	N/A	9,10	8,11	14,17
2M7N2N	Identifiler® Plus						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
2QACPQ	Identifiler® Plus						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
34C37P	Identifiler® Plus						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
34PWK4	PowerPlex® 16						
	2				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
393CE3	Identifiler® Plus						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
39HVWE	PowerPlex® 16						
	2				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 2

3H9G3C	PowerPlex® 16	2			15,16	11,12	9,11
			11,16		8,12	12	15,17
				28,31.2	X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
47DQWY	PowerPlex® 16 HS	2			15,16	11,12	9,11
			11,16		8,12	12	15,17
				28,31.2	X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
483WEA	Identifiler®	2		23,25	15,16	11,12	9,11
			11,16		8,12	12,12	15,17
			15.2,16	28,31.2	X,Y	11,12	20,21
					9,10	8,11	14,17
4BQ7QW	PowerPlex® 16	2			15,16	11,12	9,11
			11,16		8,12	12,12	15,17
				28,31.2	X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
4YU8TY	PowerPlex® 16	2			15,16	11,12	9,11
			11,16		8,12	12	15,17
				28,31.2	X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
4ZPPWL	COfiler® and Profiler Plus®	2			15,16	11,12	9,11
			11,16		8,12		15,17
				28,31.2	X,Y		20,21
							14,17
638JUX	Identifiler® Plus	2		23,25	15,16	11,12	9,11
			11,16		8,12	12,12	15,17
			15.2,16	28,31.2	X,Y	11,12	20,21
					9,10	8,11	14,17
7FR7VJ	Identifiler® Plus	2		23,25	15,16	11,12	9,11
			11,16		8,12	12,12	15,17
			15.2,16	28,31.2	X,Y	11,12	20,21
					9,10	8,11	14,17
7RMDXU	PowerPlex® 16 HS	2			15,16	11,12	9,11
			11,16		8,12	12,12	15,17
				28,31.2	X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 2

8GKCVA	PowerPlex® 16						
	2				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
8UKD9B	ESX16						
	2	11,15	23,25	11,14	15,16		
		11,16	12,15	19,22		12	15,17
		15.2,16	28,31.2	15	X,Y		20,21
					9,10		14,17
9237XF	Identifiler®						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
97D4MM	Identifiler®						
	2	NA	23,25	NA	15,16	11,12	9,11
		11,16	NA	NA	8,12	12	15,17
		15.2,16	28,31.2	NA	X,Y	11,12	20,21
		NA	NA	NA	9,10	8,11	14,17
9AGR7J	Identifiler® Plus						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
9BPAYN	Identifiler®						
	2	N/A	23,25	N/A	15,16	11,12	9,11
		11,16	N/A	N/A	8,12	12,12	15,17
		15.2,16	28,31.2	N/A	X,Y	11,12	20,21
		N/A	N/A	N/A	9,10	8,11	14,17
9FKUAY	PowerPlex® 16						
	2				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
9KUC8R	Identifiler® Plus						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
9N2CQD	Identifiler® Plus						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 2

9R2GKK	Identifiler®	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
						9,10	8,11	14,17
9VWBHL	COfiler® and Profiler Plus®	2			15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
				28,31.2		X,Y	11,12	20,21
						9,10	8,11	14,17
A6EB9F	Identifiler® Plus	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
						9,10	8,11	14,17
AADPW6	PowerPlex® 16	2			15,16	11,12	9,11	
			11,16		8,12	12	15,17	
				28,31.2		X,Y	11,12	20,21
			9,13	11,15		9,10	8,11	14,17
AFCJLQ	PowerPlex® 16 HS, ESI 17 PRO	2	11,15	23,25	11,14	15,16	11,12	9,11
			11,16	12,15	19,22	8,12	12,12	15,17
			15.2,16	28,31.2	15,15	X,Y	11,12	20,21
			9,13	11,15	29.2,30.2	9,10	8,11	14,17
AFFWDT	Identifiler® Identifiler Plus	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
						9,10	8,11	14,17
AG72PD	Profiler Plus	2			15,16	11,12	9,11	
			11,16		8,12		15,17	
				28,31.2		X,Y		20,21
						14,17		
AL4GGA	Identifiler Plus	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
						9,10	8,11	14,17
AUYJMR	PowerPlex® 16	2			15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
				28,31.2		X,Y	11,12	20,21
			9,13	11,15		9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 2

B9UZB4	<i>Identifiler®</i>	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
B9VXKZ	<i>PowerPlex® 16</i>	2			15,16	11,12	9,11	
			11,16		8,12	12	15,17	
				28,31.2		X,Y	11,12	20,21
			9,13	11,15		9,10	8,11	14,17
BMWRR3	<i>PowerPlex® 16 HS</i>	2			15,16	11,12	9,11	
			11,16		8,12	12	15,17	
				28,31.2		X,Y	11,12	20,21
			9,13	11,15		9,10	8,11	14,17
BN4AQX	<i>PowerPlex® 16</i>	2			15,16	11,12	9,11	
			11,16		8,12	12	15,17	
				28,31.2		X,Y	11,12	20,21
			9,13	11,15		9,10	8,11	14,17
BPXZWD	<i>Identifiler®</i>	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
BVBD3R	<i>Identifiler®</i>	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
BWJWHE	<i>Identifiler® Plus</i>	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
BYARQG	<i>Identifiler® Plus</i>	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
C368CA	<i>Identifiler®</i>	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 2

C3JGHP	PowerPlex® HS, ESX	2	11,15	23,25	11,14	15,16	11,12	9,11
			11,16	12,15	19,22	8,12	12	15,17
			15.2,16	28,31.2	15	X,Y	11,12	20,21
			9,13	11,15	29.2,30.2	9,10	8,11	14,17
C4YQFW	PowerPlex® 16	2				15,16	11,12	9,11
			11,16			8,12	12	15,17
				28,31.2		X,Y	11,12	20,21
			9,13	11,15		9,10	8,11	14,17
C8E9QL	Identifiler®	2	N/A	23,25	N/A	15,16	11,12	9,11
			11,16	N/A	N/A	8,12	12,12	15,17
			15.2,16	28,31.2	N/A	X,Y	11,12	20,21
			N/A	N/A	N/A	9,10	8,11	14,17
C999C4	PowerPlex® 16	2				15,16	11,12	9,11
			11,16			8,12	12	15,17
				28,31.2		X,Y	11,12	20,21
			9,13	11,15		9,10	8,11	14,17
C9TTGB	COfiler® and Profiler Plus®	2				15,16	11,12	9,11
			11,16			8,12		15,17
				28,31.2		X,Y		20,21
								14,17
CEFDPX	PowerPlex® 16	2				15,16	11,12	9,11
			11,16			8,12	12	15,17
				28,31.2		X,Y	11,12	20,21
			9,13	11,15		9,10	8,11	14,17
D3JN9N	Identifiler® Plus	2		23,25		15,16	11,12	9,11
			11,16			8,12	12	15,17
			15.2,16	28,31.2		X,Y	11,12	20,21
						9,10	8,11	14,17
DRYHCK	Identifiler®	2		23,25		15,16	11,12	9,11
			11,16			8,12	12	15,17
			15.2,16	28,31.2		X,Y	11,12	20,21
						9,10	8,11	14,17
DU7Z9U	PowerPlex® 16	2				15,16	11,12	9,11
			11,16			8,12	12	15,17
				28,31.2		X,Y	11,12	20,21
			9,13	11,15		9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 2							
DYWEQA	COfiler® and Profiler Plus®						
	2				15,16	11,12	9,11
		11,16			8,12		15,17
			28,31.2		X,Y		20,21
							14,17
E3GGGF	COfiler® and Profiler Plus®						
	2				15,16	11,12	9,11
		11,16			8,12	12,12	15,17
			28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
E7ZD77	Identifiler® Plus						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
EADJG7	Identifiler® Plus						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
EE6MBA	PowerPlex® 21						
	2	11,15	23,25		15,16	11,12	9,11
		11,16		19,22	8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
EFMJWH	PowerPlex® 21						
	2	11,15	23,25	-	15,16	11,12	9,11
		11,16	-	19,22	8,12	12,12	15,17
		15.2,16	28,31.2	-	X,Y	11,12	20,21
		9,13	11,15	-	9,10	8,11	14,17
ELMXJ6	Identifiler® Plus						
	2	N/A	23,25	N/A	15,16	11,12	9,11
		11,16	N/A	N/A	8,12	12	15,17
		15.2,16	28,31.2	N/A	X,Y	11,12	20,21
		N/A	N/A	N/A	9,10	8,11	14,17
ENUFFF	Identifiler® Plus						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
EUMDBX	Identifiler®						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 2

EZPP23	<i>PowerPlex® Fusion, NGM Select</i>						
	2	11,15	23,25	11,14	15,16	11,12	9,11
		11,16	12,15	19,22	8,12	12,12	15,17
		15.2,16	28,31.2	15,15	X,Y	11,12	20,21
		9,13	11,15	29.2,30.2	9,10	8,11	14,17
FB2EDD	<i>Identifiler® Plus</i>						
	2	-	23,25	-	15,16	11,12	9,11
		11,16	-	-	8,12	12	15,17
		15.2,16	28,31.2	-	X,Y	11,12	20,21
		-	-	-	9,10	8,11	14,17
FFW6KA	<i>Identifiler®</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
FHMC4L	<i>PowerPlex® 16</i>						
	2				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
FJKF24	<i>Identifiler® Plus</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
FMYBJL	<i>Identifiler®</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
FNTXXB	<i>COfiler® and Profiler Plus®</i>						
	2				15,16	11,12	9,11
		11,16			8,12	12,12	15,17
			28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
G7QFM7	<i>PowerPlex® 21</i>						
	2	11,15	23,25		15,16	11,12	9,11
		11,16		19,22	8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
G83DWG	<i>Identifiler® Plus</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 2

GAM67X	<i>Identifiler® Plus</i>	2	23,25		15,16	11,12	9,11
			11,16		8,12	12,12	15,17
			15.2,16	28,31.2		X,Y	11,12
					9,10	8,11	14,17
GHKWC8	<i>Identifiler®</i>	2	23,25		15,16	11,12	9,11
			11,16		8,12	12,12	15,17
			15.2,16	28,31.2		X,Y	11,12
					9,10	8,11	14,17
GQVYZT	<i>PowerPlex® 16</i>	2			15,16	11,12	9,11
			11,16		8,12	12	15,17
				28,31.2		X,Y	11,12
			11,15		9,10	8,11	14,17
GTX47L	<i>PowerPlex® 16</i>	2			15,16	11,12	9,11
			11,16		8,12	12	15,17
				28,31.2		X,Y	11,12
			11,15		9,10	8,11	14,17
GUV844	<i>Identifiler[sic] Plus</i>	2	23,25		15,16	11,12	9,11
			11,16		8,12	12	15,17
			15.2,16	28,31.2		X,Y	11,12
					9,10	8,11	14,17
GW2UG8	<i>Identifiler®</i>	2	23,25		15,16	11,12	9,11
			11,16		8,12	12,12	15,17
			15.2,16	28,31.2		X,Y	11,12
					9,10	8,11	14,17
GXWBU6	<i>Identifiler®</i>	2	23,25		15,16	11,12	9,11
			11,16		8,12	12	15,17
			15.2,16	28,31.2		X,Y	11,12
					9,10	8,11	14,17
H4E4KU	<i>Identifiler®</i>	2	23,25		15,16	11,12	9,11
			11,16		8,12	12	15,17
			15.2,16	28,31.2		X,Y	11,12
					9,10	8,11	14,17
H7KTGC	<i>Identifiler®</i>	2	23,25		15,16	11,12	9,11
			11,16		8,12	12	15,17
			15.2,16	28,31.2		X,Y	11,12
					9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 2

HDJBZU	<i>Identifiler®</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
HJTBE7	<i>Identifiler® Plus, PowerPlex® PP16 HS, ESX-CS7</i>						
	2	11,15	23,25	11,14	15,16	11,12	9,11
		11,16	12,15	19,22	8,12	12	15,17
		15.2,16	28,31.2	15	X,Y	11,12	20,21
		9,13	11,15	29.2,30.2	9,10	8,11	14,17
HWV2W6	<i>Identifiler®</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
J88Q9F	<i>Identifiler® Plus</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
KGFG6	<i>Identifiler® Plus</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
KZ9J97	<i>Identifiler® Plus</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
L2ZXCA	<i>Identifiler® Plus</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
L6XDMJ	<i>Identifiler® Plus</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
LFYNA9	<i>PowerPlex® 16</i>						
	2				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 2

LG8X36	<i>Identifiler Plus</i>	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
LRR772	<i>Identifiler Plus</i>	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
LT2ER7	<i>Identifiler® Plus</i>	2	23,25	-	15,16	11,12	9,11	
			11,16	-	8,12	12	15,17	
			15.2,16	28,31.2	-	X,Y	11,12	20,21
			-	-	-	9,10	8,11	14,17
ML366E	<i>COfiler® and Profiler Plus®</i>	2			15,16	11,12	9,11	
			11,16		8,12	12	15,17	
				28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
MVNDKV	<i>Identifiler® Plus, NGM Select</i>	2	11,15	23,25	11,14	15,16	11,12	9,11
			11,16	12,15	19,22	8,12	12,12	15,17
			15.2,16	28,31.2	15,15	X,Y	11,12	20,21
					29,30.2	9,10	8,11	14,17
NA7GN6	<i>Identifiler® Plus</i>	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
NBDJQ4	<i>Identifiler®</i>	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
NJTCP7	<i>COfiler® and Profiler Plus®</i>	2	-	-	-	15,16	11,12	9,11
			11,16	-	-	8,12	12,12	15,17
			-	28,31.2	-	X,Y	11,12	20,21
			-	-	-	9,10	8,11	14,17
NTG9PL	<i>PowerPlex® 16</i>	2			15,16	11,12	9,11	
			11,16		8,12	12	15,17	
				28,31.2		X,Y	11,12	20,21
			9,13	11,15		9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 2

NVJ9PJ	<i>PowerPlex® 16</i>						
	2				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
NYKYAC	<i>Identifiler®</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
				9,10	8,11	14,17	
P2N6B4	<i>Identifiler® Plus</i>						
	2	-	23,25	-	15,16	11,12	9,11
		11,16	-	-	8,12	12,12	15,17
		15.2,16	28,31.2	-	X,Y	11,12	20,21
				9,10	8,11	14,17	
PC626A	<i>PowerPlex® Fusion</i>						
	2	11,15	23,25	11,14	15,16	11,12	9,11
		11,16	12,15	19,22	8,12	12	15,17
		15.2,16	28,31.2	15	X,Y	11,12	20,21
	9,13	11,15		9,10	8,11	14,17	
PDKB63	<i>Identifiler® Plus</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
				9,10	8,11	14,17	
PHW9Q4	<i>Identifiler® Plus</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
				9,10	8,11	14,17	
PYXB42	<i>PowerPlex® 16 HS, Globalfiler</i>						
	2	11,15	23,25	11,14	15,16	11,12	9,11
		11,16	12,15	19,22	8,12	12,12	15,17
		15.2,16	28,31.2	15,15	X,Y	11,12	20,21
	9,13	11,15	29.2,30.2	9,10	8,11	14,17	
Q7D8R9	<i>PowerPlex® 16</i>						
	2				15,16	11,12	9,11
		11,16			8,12	12,12	15,17
			28,31.2		X,Y	11,12	20,21
	9,13	11,15		9,10	8,11	14,17	
QADFWJ	<i>PowerPlex® 16</i>						
	2				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
	9,13	11,15		9,10	8,11	14,17	

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 2							
QCCLPQ2	COfiler® and Profiler Plus®						
	2				15,16	11,12	9,11
		11,16			8,12	12,12	15,17
			28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
QMHH8	Identifiler®						
	2	N/A	23,25	N/A	15,16	11,12	9,11
		11,16	N/A	N/A	8,12	12,12	15,17
		15.2,16	28,31.2	N/A	X,Y	11,12	20,21
		N/A	N/A	N/A	9,10	8,11	14,17
QP9ZD8	Identifiler® Plus						
	2	-	23,25	-	15,16	11,12	9,11
		11,16	-	-	8,12	12,12	15,17
		15.2,16	28,31.2	-	X,Y	11,12	20,21
		-	-	-	9,10	8,11	14,17
QTNANP	PowerPlex® 16						
	2				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
QYB3UX	Profiler Plus						
	2				15,16	11,12	9,11
		11,16			8,12		15,17
			28,31.2		X,Y		20,21
							14,17
R2BRBW	Identifiler® Identifiler Plus						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
R42YU9	PowerPlex® 16						
	2				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
RDCXP6	Goldeneye 20A						
	2		23,25		15,16	11,12	9,11
		11,16		19,22	8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
RHPV2X	Identifiler®						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 2

RPMLM9	<i>Identifiler® Identifiler Plus</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
TBGUFU	<i>PowerPlex® PP21</i>						
	2	11,15	23,25		15,16	11,12	9,11
		11,16		19,22	8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
TCRW3T	<i>Identifiler® Plus</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
TDMF7F	<i>PowerPlex® 16</i>						
	2				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
TUCKDA	<i>PowerPlex® 16</i>						
	2				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
TUV79K	<i>Identifiler®</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
TW2RWK	<i>PowerPlex® PowerPlex® 16 HS</i>						
	2				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
U8EF24	<i>Identifiler®</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
UEWQF6	<i>PowerPlex® Fusion</i>						
	2	11,15	23,25	11,14	15,16	11,12	9,11
		11,16	12,15	19,22	8,12	12	15,17
		15.2,16	28,31.2	15	X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 2

UFR8R2	<i>Identifiler®</i>						
	2	N/A	23,25	N/A	15,16	11,12	9,11
		11,16	N/A	N/A	8,12	12,12	15,17
		15.2,16	28,31.2	N/A	X,Y	11,12	20,21
		N/A	N/A	N/A	9,10	8,11	14,17
UNJMG6	<i>Identifiler® Plus</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
UPW8B2	<i>COfiler® and Profiler Plus®</i>						
	2				15,16	11,12	9,11
		11,16			8,12	12,12	15,17
			28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
UY7LAW	<i>Profiler Plus</i>						
	2				15,16	11,12	9,11
		11,16			8,12		15,17
			28,31.2		X,Y		20,21
							14,17
UYMTGY	<i>COfiler® and Profiler Plus®</i>						
	2				15,16	11,12	9,11
		11,16			8,12	12,12	15,17
			28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
V7YFKZ	<i>Identifiler® Plus</i>						
	2	-	23,25	-	15,16	11,12	9,11
		11,16	-	-	8,12	12	15,17
		15.2,16	28,31.2	-	X,Y	11,12	20,21
		-	-	-	9,10	8,11	14,17
V94W24	<i>Identifiler® Plus</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
VBCC7N	<i>IDENTIFILER Plus</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
VEBM4A	<i>Identifiler® Plus</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 2

VGGVPM	NGM Select						
	2	11,15	23,25	11,14	15,16		
		11,16	12,15	19,22		12,12	15,17
		15.2,16	28,31.2	15,15	X,Y		20,21
				29.2,30.2	9,10		14,17
VHVFFC	PowerPlex® 16						
	2				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
VMK236	PowerPlex® 16 HS, NGM SElect						
	2	11,15	23,25	11,14	15,16	11,12	9,11
		11,16	12,15	19,22	8,12	12	15,17
		15.2,16	28,31.2	15	X,Y	11,12	20,21
		9,13	11,15	29.2,30.2	9,10	8,11	14,17
VPG9UW	Identifiler Plus						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
VPVYFM	NGM Select						
	2	11,15	23,25	11,14	15,16	-	-
		11,16	12,15	19,22	-	12,12	15,17
		15.2,16	28,31.2	15,15	X,Y	-	20,21
		-	-	29.2,30.2	9,10	-	14,17
W2F8V	Identifiler®						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
VWFXB2	COfiler® and Profiler Plus®						
	2	-	-	-	15,16	11,12	9,11
		11,16	-	-	8,12	12	15,17
		-	28,31.2	-	X,Y	11,12	20,21
		-	-	-	9,10	8,11	14,17
VYF93U	Identifiler®						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
W2PF6M	Identifiler Plus						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 2

W6JG3V	Identifiler®	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
W8P2QV	Identifiler®	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
WCZ3VZ	Identifiler®	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
WEMQ8Z	Identifiler®	2	N/A	23,25	N/A	15,16	11,12	9,11
			11,16	N/A	N/A	8,12	12,12	15,17
			15.2,16	28,31.2	N/A	X,Y	11,12	20,21
			N/A	N/A	N/A	9,10	8,11	14,17
WJMV8Y	COfiler® and Profiler Plus®	2	-	-	-	15,16	11,12	9,11
			11,16	-	-	8,12	12,12	15,17
			-	28,31.2	-	X,Y	11,12	20,21
			-	-	-	9,10	8,11	14,17
WM7MJ3	PowerPlex® 16 HS	2			15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
				28,31.2		X,Y	11,12	20,21
			9,13	11,15		9,10	8,11	14,17
WRAZU6	PowerPlex® 16	2			15,16	11,12	9,11	
			11,16		8,12	12	15,17	
				28,31.2		X,Y	11,12	20,21
			9,13	11,15		9,10	8,11	14,17
WZ9FMJ	PowerPlex® 16	2			15,16	11,12	9,11	
			11,16		8,12	12	15,17	
				28,31.2		X,Y	11,12	20,21
			9,13	11,15		9,10	8,11	14,17
X7PJ4K	PowerPlex® Fusion & ESI_17	2	11,15	23,25	11,14	15,16	11,12	9,11
			11,16	12,15	19,22	8,12	12,12	15,17
			15.2,16	28,31.2	15,15	X,Y	11,12	20,21
			9,13	11,15	29.2,30.2	9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 2

XADQRN	<i>Identifiler®</i>	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
XKATWH	<i>Identifiler® Plus</i>	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
Y4D48Y	<i>Identifiler®</i>	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
YHY9N8	<i>Identifiler Plus</i>	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
YK8JF6	<i>Identifiler® Plus</i>	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
YLFLH4	<i>PowerPlex® 16</i>	2			15,16	11,12	9,11	
			11,16		8,12	12	15,17	
				28,31.2		X,Y	11,12	20,21
			9,13	11,15		9,10	8,11	14,17
YVMH2Z	<i>Identifiler® Plus</i>	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
YZJYKL	<i>Identifiler® Identifiler Plus</i>	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
Z69WN3	<i>Identifiler® Plus</i>	2	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 2

Z98CYC	<i>Identifiler®</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
ZBVLBX	<i>Identifiler® Plus</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
ZF8JWZ	<i>Identifiler® Plus</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
ZHV9ZD	<i>PowerPlex® 16 HS</i>						
	2				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
ZN6AFP	<i>COfiler® and Profiler Plus® 10</i>						
	2				15,16	11,12	9,11
		11,16			8,12		15,17
			28,31.2		X,Y		20,21
							14,17
ZWETHL	<i>Identifiler®</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
ZWEV9P	<i>Identifiler®</i>						
	2		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 3

26J3JJ	PowerPlex® 16 HS, NGM SElect						
	3	12,15	17,19	10,11	14,17	12,13	8,10
		11,14	14,15	18,20	8,12	11	12,17
		12,16.2	30,35	16,17	X	10	20,23
		8,13	12,14	14,22	9,9.3	8,9	15,17
2FBGQV	Identifiler® Plus						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
2GW63V	Identifiler®						
	3	N/A	17,19	N/A	14,17	12,13	8,10
		11,14	N/A	N/A	8,12	11,11	12,17
		12,16.2	30,35	N/A	X,X	10,10	20,23
		N/A	N/A	N/A	9,9.3	8,9	15,17
2M7N2N	Identifiler® Plus						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
2QACPQ	Identifiler® Plus						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
34C37P	Identifiler® Plus						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
34PWK4	PowerPlex® 16						
	3				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
393CE3	Identifiler® Plus						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
39HVWE	PowerPlex® 16						
	3				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 3

3H9G3C	PowerPlex® 16						
	3				14,17	12,13	8,10
	11,14				8,12	11	12,17
			30,35		X,X	10	20,23
	8,13		12,14		9,9.3	8,9	15,17
47DQWY	COfiler® and Profiler Plus®						
	3				14,17	12,13	8,10
	11,14				8,12	11	12,17
			30,35		X	10	20,23
					9,9.3	8,9	15,17
483WEA	Identifiler®						
	3		17,19		14,17	12,13	8,10
	11,14				8,12	11,11	12,17
	12,16.2		30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
4BQ7QW	PowerPlex® 16						
	3				14,17	12,13	8,10
	11,14				8,12	11,11	12,17
			30,35		X,X	10,10	20,23
	8,13		12,14		9,9.3	8,9	15,17
4YU8TY	PowerPlex® 16						
	3				14,17	12,13	8,10
	11,14				8,12	11	12,17
			30,35		X	10	20,23
	8,13		12,14		9,9.3	8,9	15,17
4ZPPWL	COfiler® and Profiler Plus®						
	3				14,17	12,13	8,10
	11,14				8,12		12,17
			30,35		X,X		20,23
							15,17
638JUX	Identifiler® Plus						
	3		17,19		14,17	12,13	8,10
	11,14				8,12	11,11	12,17
	12,16.2		30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
7FR7VJ	Identifiler® Plus						
	3		17,19		14,17	12,13	8,10
	11,14				8,12	11,11	12,17
	12,16.2		30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
7RMDXU	PowerPlex® 16 HS						
	3				14,17	12,13	8,10
	11,14				8,12	11,11	12,17
			30,35		X,X	10,10	20,23
	8,13		12,14		9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 3

8GKCVA	PowerPlex® 16						
	3				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
8UKD9B	ESX16						
	3	12,15	17,19	10,11	14,17		
		11,14	14,15	18,20		11	12,17
		12,16.2	30,35	16,17	X		20,23
					9,9.3		15,17
9237XF	Identifiler®						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
97D4MM	Identifiler®						
	3	NA	17,19	NA	14,17	12,13	8,10
		11,14	NA	NA	8,12	11	12,17
		12,16.2	30,35	NA	X	10	20,23
		NA	NA	NA	9,9.3	8,9	15,17
9AGR7J	Identifiler® Plus						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
9BPAYN	Identifiler®						
	3	N/A	17,19	N/A	14,17	12,13	8,10
		11,14	N/A	N/A	8,12	11,11	12,17
		12,16.2	30,35	N/A	X,X	10,10	20,23
		N/A	N/A	N/A	9,9.3	8,9	15,17
9FKUAY	PowerPlex® 16						
	3				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
9KUC8R	Identifiler® Plus						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
9N2CQD	Identifiler® Plus						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,[34],35		X	10	20,23
					9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 3

9R2GKK	<i>Identifiler®</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
9VWBHL	<i>COfiler® and Profiler Plus®</i>						
	3				14,17	12,13	8,10
		11,14			8,12	11,11	12,17
			30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
A6EB9F	<i>Identifiler® Plus</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
AADPW6	<i>PowerPlex® 16</i>						
	3				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
AFCJLQ	<i>PowerPlex® 16 HS, ESI 17 PRO</i>						
	3	12,15	17,19	10,11	14,17	12,13	8,10
		11,14	14,15	18,20	8,12	11,11	12,17
		12,16.2	30,35	16,17	X,X	10,10	20,23
		8,13	12,14	14,22	9,9.3	8,9	15,17
AFFWDT	<i>Identifiler® Identifiler Plus</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
AG72PD	<i>Profiler Plus</i>						
	3				14,17	12,13	8,10
		11,14			8,12		12,17
			30,35		X,X		20,23
							15,17
AL4GGA	<i>Identifiler Plus</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
AUYJMR	<i>PowerPlex® 16</i>						
	3				14,17	12,13	8,10
		11,14			8,12	11,11	12,17
			30,35		X,X	10,10	20,23
		8,13	12,14		9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 3

B9UZB4	<i>Identifiler®</i>	3	17,19		14,17	12,13	8,10	
			11,14		8,12	11,11	12,17	
			12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17	
B9VXKZ	<i>PowerPlex® 16</i>	3			14,17	12,13	8,10	
			11,14		8,12	11	12,17	
				30,35		X,X	10	20,23
			8,13	12,14		9,9.3	8,9	15,17
BMWRR3	<i>PowerPlex® 16 HS</i>	3			14,17	12,13	8,10	
			11,14		8,12	11	12,17	
				30,35		X	10	20,23
			8,13	12,14		9,9.3	8,9	15,17
BN4AQX	<i>PowerPlex® 16</i>	3			14,17	12,13	8,10	
			11,14		8,12	11	12,17	
				30,35		X,X	10	20,23
			8,13	12,14		9,9.3	8,9	15,17
BPXZWD	<i>Identifiler®</i>	3	17,19		14,17	12,13	8,10	
			11,14		8,12	11,11	12,17	
			12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17	
BVBD3R	<i>Identifiler®</i>	3	17,19		14,17	12,13	8,10	
			11,14		8,12	11	12,17	
			12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17	
BWJWHE	<i>Identifiler® Plus</i>	3	17,19		14,17	12,13	8,10	
			11,14		8,12	11,11	12,17	
			12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17	
BYARQG	<i>Identifiler® Plus</i>	3	17,19		14,17	12,13	8,10	
			11,14		8,12	11,11	12,17	
			12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17	
C368CA	<i>Identifiler®</i>	3	17,19		14,17	12,13	8,10	
			11,14		8,12	11	12,17	
			12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17	

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 3

C3JGHP	PowerPlex® HS, ESX	3	12,15	17,19	10,11	14,17	12,13	8,10
			11,14	14,15	18,20	8,12	11	12,17
			12,16.2	30,35	16,17	X	10	20,23
			8,13	12,14	14,22	9,9.3	8,9	15,17
C4YQFW	PowerPlex® 16	3				14,17	12,13	8,10
			11,14			8,12	11	12,17
				30,35		X,X	10	20,23
			8,13	12,14		9,9.3	8,9	15,17
C8E9QL	Identifiler®	3	N/A	17,19	N/A	14,17	12,13	8,10
			11,14	N/A	N/A	8,12	11,11	12,17
			12,16.2	30,35	N/A	X,X	10,10	20,23
			N/A	N/A	N/A	9,9.3	8,9	15,17
C999C4	PowerPlex® 16	3				14,17	12,13	8,10
			11,14			8,12	11	12,17
				30,35		X,X	10	20,23
			8,13	12,14		9,9.3	8,9	15,17
C9TTGB	COfiler® and Profiler Plus®	3				14,17	12,13	8,10
			11,14			8,12		12,17
				30,35		X,X		20,23
								15,17
CEFDPX	PowerPlex® 16	3				14,17	12,13	8,10
			11,14			8,12	11	12,17
				30,35		X,X	10	20,23
			8,13	12,14		9,9.3	8,9	15,17
D3JN9N	Identifiler® Plus	3		17,19		14,17	12,13	8,10
			11,14			8,12	11	12,17
			12,16.2	30,35		X	10	20,23
						9,9.3	8,9	15,17
DRYHCK	Identifiler®	3		17,19		14,17	12,13	8,10
			11,14			8,12	11	12,17
			12,16.2	30,35		X	10	20,23
						9,9.3	8,9	15,17
DU7Z9U	PowerPlex® 16	3				14,17	12,13	8,10
			11,14			8,12	11	12,17
				30,35		X,X	10	20,23
			8,13	12,14		9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 3

DYWEQA	COfiler® and Profiler Plus®						
	3				14,17	12,13	8,10
	11,14				8,12		12,17
		30,35			X,X		20,23
							15,17
E3GGGF	COfiler® and Profiler Plus®						
	3				14,17	12,13	8,10
	11,14				8,12	11,11	12,17
		30,35			X,X	10,10	20,23
					9,9.3	8,9	15,17
E7ZD77	Identifiler® Plus						
	3		17,19		14,17	12,13	8,10
	11,14				8,12	11	12,17
	12,16.2		30,35		X	10	20,23
					9,9.3	8,9	15,17
EADJG7	Identifiler® Plus						
	3		17,19		14,17	12,13	8,10
	11,14				8,12	11	12,17
	12,16.2		30,35		X	10	20,23
					9,9.3	8,9	15,17
EE6MBA	PowerPlex® 21						
	3	12,15	17,19		14,17	12,13	8,10
	11,14			18,20	8,12	11,11	12,17
	12,16.2		30,35		X,X	10,10	20,23
	8,13		12,14		9,9.3	8,9	15,17
EFMJWH	PowerPlex® 21						
	3	12,15	17,19	-	14,17	12,13	8,10
	11,14		-	18,20	8,12	11,11	12,17
	12,16.2		30,35	-	X,X	10,10	20,23
	8,13		12,14	-	9,9.3	8,9	15,17
ELMXJ6	Identifiler® Plus						
	3	N/A	17,19	N/A	14,17	12,13	8,10
	11,14		N/A	N/A	8,12	11	12,17
	12,16.2		30,35	N/A	X	10	20,23
	N/A		N/A	N/A	9,9.3	8,9	15,17
ENUFFF	Identifiler® Plus						
	3		17,19		14,17	12,13	8,10
	11,14				8,12	11	12,17
	12,16.2		30,35		X,X	10	20,23
					9,9.3	8,9	15,17
EUMDBX	Identifiler®						
	3		17,19		14,17	12,13	8,10
	11,14				8,12	11	12,17
	12,16.2		30,35		X	10	20,23
					9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 3

EZPP23	PowerPlex® Fusion, NGM Select						
	3	12,15 11,14 12,16.2 8,13	17,19 14,15 30,35 12,14	10,11 18,20 16,17 14,22	14,17 8,12 X,X 9,9.3	12,13 11,11 10,10 8,9	8,10 12,17 20,23 15,17
FB2EDD	Identifiler® Plus						
	3	- 11,14 12,16.2 -	17,19 - 30,35 -	- - - -	14,17 8,12 X,X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
FFW6KA	Identifiler®						
	3		17,19		14,17 8,12 X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
FHMC4L	PowerPlex® 16						
	3				14,17 8,12 X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
FJKF24	Identifiler® Plus						
	3		17,19		14,17 8,12 X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
FMYBJL	Identifiler®						
	3		17,19		14,17 8,12 X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
FNTXXB	COfiler® and Profiler Plus®						
	3				14,17 8,12 X,X 9,9.3	12,13 11,11 10,10 8,9	8,10 12,17 20,23 15,17
G7QFM7	PowerPlex® 21						
	3	12,15 11,14 12,16.2 8,13	17,19 30,35 12,14	18,20	14,17 8,12 X,X 9,9.3	12,13 11,11 10,10 8,9	8,10 12,17 20,23 15,17
G83DWG	Identifiler® Plus						
	3		17,19		14,17 8,12 X,X 9,9.3	12,13 11,11 10,10 8,9	8,10 12,17 20,23 15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 3

GAM67X	<i>Identifiler® Plus</i>	3	17,19		14,17	12,13	8,10	
			11,14		8,12	11,11	12,17	
			12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17	
GHKWC8	<i>Identifiler®</i>	3	17,19		14,17	12,13	8,10	
			11,14		8,12	11,11	12,17	
			12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17	
GQVYZT	<i>PowerPlex® 16</i>	3			14,17	12,13	8,10	
			11,14		8,12	11	12,17	
				30,35		X,X	10	20,23
			8,13	12,14		9,9.3	8,9	15,17
GTX47L	<i>PowerPlex® 16</i>	3			14,17	12,13	8,10	
			11,14		8,12	11	12,17	
				30,35		X	10	20,23
			8,13	12,14		9,9.3	8,9	15,17
GUV844	<i>Identifiler® Plus</i>	3	17,19		14,17	12,13	8,10	
			11,14		8,12	11	12,17	
			12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17	
GW2UG8	<i>Identifiler®</i>	3	17,19		14,17	12,13	8,10	
			11,14		8,12	11,11	12,17	
			12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17	
GXWBU6	<i>Identifiler®</i>	3	17,19		14,17	12,13	8,10	
			11,14		8,12	11	12,17	
			12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17	
H4E4KU	<i>Identifiler®</i>	3	17,19		14,17	12,13	8,10	
			11,14		8,12	11	12,17	
			12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17	
H7KTGC	<i>Identifiler®</i>	3	17,19		14,17	12,13	8,10	
			11,14		8,12	11	12,17	
			12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17	

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 3

HDJBZU	<i>Identifiler®</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
HJTBE7	<i>Identifiler® Plus, PowerPlex® PP16 HS, ESX-CS7</i>						
	3	12,15	17,19	10,11	14,17	12,13	8,10
		11,14	14,15	18,20	8,12	11	12,17
		12,16.2	30,35	16,17	X,X	10	20,23
		8,13	12,14	14,22	9,9.3	8,9	15,17
HWV2W6	<i>Identifiler®</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
J88Q9F	<i>Identifiler® Plus</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
KGFG6	<i>Identifiler® Plus</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
KZ9J97	<i>Identifiler® Plus</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
L2ZXCA	<i>Identifiler® Plus</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
L6XDMJ	<i>Identifiler® Plus</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
LFYNA9	<i>PowerPlex® 16</i>						
	3				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 3

LG8X36	<i>Identifiler Plus</i>	3	17,19		14,17	12,13	8,10	
		11,14			8,12	11,11	12,17	
		12,16.2	30,35		X,X	10,10	20,23	
					9,9.3	8,9	15,17	
LRR772	<i>MiniFiler, Identifiler Plus</i>	3	17,19		14,17	12,13	8,10	
		11,14			8,12	11	12,17	
		12,16.2	30,35		X	10	20,23	
					9,9.3	8,9	15,17	
LT2ER7	<i>Identifiler® Plus</i>	3	17,19	-	14,17	12,13	8,10	
		11,14	-	-	8,12	11	12,17	
		12,16.2	30,35	-	X,X	10	20,23	
		-	-	-	9,9.3	8,9	15,17	
ML366E	<i>COfiler® and Profiler Plus®</i>	3			14,17	12,13	8,10	
		11,14			8,12	11	12,17	
			30,35		X	10	20,23	
					9,9.3	8,9	15,17	
MVNDKV	<i>Identifiler® Plus, NGM Select</i>	3	12,15	17,19	10,11	14,17	12,13	8,10
		11,14	14,15		18,20	8,12	11,11	12,17
		12,16.2	30,35		16,17	X,X	10,10	20,23
					14,22	9,9.3	8,9	15,17
NA7GN6	<i>Identifiler® Plus</i>	3	17,19		14,17	12,13	8,10	
		11,14			8,12	11,11	12,17	
		12,16.2	30,35		X,X	10,10	20,23	
					9,9.3	8,9	15,17	
NBDJQ4	<i>Identifiler®</i>	3	17,19		14,17	12,13	8,10	
		11,14			8,12	11	12,17	
		12,16.2	30,35		X	10	20,23	
					9,9.3	8,9	15,17	
NJTCP7	<i>COfiler® and Profiler Plus®</i>	3	-	-	-	14,17	12,13	8,10
		11,14	-	-	-	8,12	11,11	12,17
		-	30,35	-	-	X,X	10,10	20,23
		-	-	-	-	9,9.3	8,9	15,17
NTG9PL	<i>PowerPlex® 16</i>	3				14,17	12,13	8,10
		11,14				8,12	11	12,17
			30,35			X,X	10	20,23
		8,13	12,14			9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 3

NVJ9PJ	PowerPlex® 16						
	3				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
NYKYAC	Identifiler®						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
				9,9.3	8,9	15,17	
P2N6B4	Identifiler® Plus						
	3	-	17,19	-	14,17	12,13	8,10
		11,14	-	-	8,12	11,11	12,17
		12,16.2	30,35	-	X,X	10,10	20,23
		-	-	9,9.3	8,9	15,17	
PC626A	PowerPlex® Fusion						
	3	12,15	17,19	10,11	14,17	12,13	8,10
		11,14	14,15	18,20	8,12	11	12,17
		12,16.2	30,35	16,17	X	10	20,23
	8,13	12,14		9,9.3	8,9	15,17	
PDKB63	Identifiler® Plus						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
				9,9.3	8,9	15,17	
PHW9Q4	Identifiler® Plus						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X,X	10	20,23
				9,9.3	8,9	15,17	
PYXB42	PowerPlex® 16 HS, Globalfiler						
	3	12,15	17,19	10,11	14,17	12,13	8,10
		11,14	14,15	18,20	8,12	11,11	12,17
		12,16.2	30,35	16,17	X,X	10,10	20,23
	8,13	12,14	14,22	9,9.3	8,9	15,17	
Q7D8R9	PowerPlex® 16						
	3				14,17	12,13	8,10
		11,14			8,12	11,11	12,17
			30,35		X,X	10,10	20,23
	8,13	12,14		9,9.3	8,9	15,17	
QADFWJ	PowerPlex® 16						
	3				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
	8,13	12,14		9,9.3	8,9	15,17	

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 3

QCCLPQ2	COfiler® and Profiler Plus®						
	3				14,17	12,13	8,10
		11,14			8,12	11,11	12,17
			30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
QMHH8	Identifiler®						
	3	N/A	17,19	N/A	14,17	12,13	8,10
		11,14	N/A	N/A	8,12	11,11	12,17
		12,16.2	30,35	N/A	X,X	10,10	20,23
		N/A	N/A	N/A	9,9.3	8,9	15,17
QP9ZD8	Identifiler® Plus						
	3	-	17,19	-	14,17	12,13	8,10
		11,14	-	-	8,12	11,11	12,17
		12,16.2	30,35	-	X,X	10,10	20,23
		-	-	-	9,9.3	8,9	15,17
QTNANP	PowerPlex® 16						
	3				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
QYB3UX	Profiler Plus						
	3				14,17	12,13	8,10
		11,14			8,12		12,17
			30,35		X,X		20,23
							15,17
R2BRBW	Identifiler® Identifiler Plus						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
R42YU9	PowerPlex® 16						
	3				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
RDCXP6	Goldeneye 20A						
	3		17,19		14,17	12,13	8,10
		11,14		18,20	8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
		8,13	12,14		9,9.3	8,9	15,17
RHPV2X	Identifiler®						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 3

RPMLM9	<i>Identifiler® Identifiler Plus</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
TBGUFU	<i>PowerPlex® PP21</i>						
	3	12,15	17,19		14,17	12,13	8,10
		11,14		18,20	8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
		8,13	12,14		9,9.3	8,9	15,17
TCRW3T	<i>Identifiler® Plus</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
TDMF7F	<i>PowerPlex® 16</i>						
	3				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
TUCKDA	<i>PowerPlex® 16</i>						
	3				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X,X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
TUV79K	<i>Identifiler®</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
TW2RWK	<i>PowerPlex® PowerPlex® 16 HS</i>						
	3				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
U8EF24	<i>Identifiler®</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
UEWQF6	<i>PowerPlex® Fusion</i>						
	3	12,15	17,19	10,11	14,17	12,13	8,10
		11,14	14,15	18,20	8,12	11	12,17
		12,16.2	30,35	16,17	X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 3

UFR8R2	<i>Identifiler®</i>						
	3	N/A	17,19	N/A	14,17	12,13	8,10
		11,14	N/A	N/A	8,12	11,11	12,17
		12,16.2	30,35	N/A	X,X	10,10	20,23
		N/A	N/A	N/A	9,9.3	8,9	15,17
UNJMG6	<i>Identifiler® Plus</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
UPW8B2	<i>COfiler® and Profiler Plus®</i>						
	3				14,17	12,13	8,10
		11,14			8,12	11,11	12,17
			30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
UY7LAW	<i>Profiler Plus</i>						
	3				14,17	12,13	8,10
		11,14			8,12		12,17
			30,35		X,X		20,23
							15,17
UYMTGY	<i>COfiler® and Profiler Plus®</i>						
	3				14,17	12,13	8,10
		11,14			8,12	11,11	12,17
			30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
V7YFKZ	<i>Identifiler® Plus</i>						
	3	-	17,19	-	14,17	12,13	8,10
		11,14	-	-	8,12	11	12,17
		12,16.2	30,35	-	X,X	10	20,23
		-	-	-	9,9.3	8,9	15,17
V94W24	<i>Identifiler® Plus</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
VBCC7N	<i>IDENTIFILER Plus</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,(34),35		X	10	20,23
					9,9.3	8,9	15,17
VEBM4A	<i>Identifiler® Plus</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3							
VGGVPM	NGM Select						
	3	12,15 11,14 12,16.2	17,19 14,15 30,35	10,11 18,20 16,17 14,22	14,17 X,X 9,9.3	11,11	12,17 20,23 15,17
VHVFFC	PowerPlex® 16						
	3	11,14 8,13	30,35 12,14		14,17 8,12 X,X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
VMK236	PowerPlex® HS, NGM SElect						
	3	12,15 11,14 12,16.2 8,13	17,19 14,15 30,35 12,14	10,11 18,20 16,17 14,22	14,17 8,12 X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
VPG9UW	Identifiler Plus						
	3	11,14 12,16.2	17,19 30,35		14,17 8,12 X,X 9,9.3	12,13 11,11 10,10 8,9	8,10 12,17 20,23 15,17
VPVYFM	NGM Select						
	3	12,15 11,14 12,16.2 -	17,19 14,15 30,35 -	10,11 18,20 16,17 14,22	14,17 - X,X 9,9.3	- 11,11 - -	- 12,17 20,23 15,17
W2F8V	Identifiler®						
	3	11,14 12,16.2	17,19 30,35		14,17 8,12 X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
VWFXB2	COfiler® and Profiler Plus®						
	3	- 11,14 - -	- - 30,35 -	- - - -	14,17 8,12 X,X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
VYF93U	Identifiler®						
	3	11,14 12,16.2	17,19 30,35		14,17 8,12 X,X 9,9.3	12,13 11,11 10,10 8,9	8,10 12,17 20,23 15,17
W2PF6M	Identifiler Plus, MiniFiler						
	3	11,14 12,16.2	17,19 30,35		14,17 8,12 X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 3

W6JG3V	Identifiler®	3	17,19		14,17	12,13	8,10	
			11,14		8,12	11	12,17	
			12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17	
W8P2QV	Identifiler®	3	17,19		14,17	12,13	8,10	
			11,14		8,12	11,11	12,17	
			12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17	
WCZ3VZ	Identifiler®	3	17,19		14,17	12,13	8,10	
			11,14		8,12	11	12,17	
			12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17	
WEMQ8Z	Identifiler®	3	N/A	17,19	N/A	14,17	12,13	8,10
			11,14	N/A	N/A	8,12	11,11	12,17
			12,16.2	30,35	N/A	X,X	10,10	20,23
			N/A	N/A	N/A	9,9.3	8,9	15,17
WJMV8Y	COfiler® and Profiler Plus®	3	-	-	-	14,17	12,13	8,10
			11,14	-	-	8,12	11,11	12,17
			-	30,35	-	X,X	10,10	20,23
			-	-	-	9,9.3	8,9	15,17
WM7MJ3	PowerPlex® 16 HS	3			14,17	12,13	8,10	
			11,14		8,12	11,11	12,17	
				30,35		X,X	10,10	20,23
			8,13	12,14		9,9.3	8,9	15,17
WRAZU6	PowerPlex® 16	3			14,17	12,13	8,10	
			11,14		8,12	11	12,17	
				30,35		X	10	20,23
			8,13	12,14		9,9.3	8,9	15,17
WZ9FMJ	PowerPlex® 16	3			14,17	12,13	8,10	
			11,14		8,12	11	12,17	
				30,35		X,X	10	20,23
			8,13	12,14		9,9.3	8,9	15,17
X7PJ4K	PowerPlex® Fusion & Esi17	3	12,15	17,19	10,11	14,17	12,13	8,10
			11,14	14,15	18,20	8,12	11,11	12,17
			12,16.2	30,35	16,17	X,X	10,10	20,23
			8,13	12,14	14,22	9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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XADQRN	<i>Identifiler®</i>	3	17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
XKATWH	<i>Identifiler® Plus</i>	3	17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
Y4D48Y	<i>Identifiler®</i>	3	17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
YHY9N8	<i>Identifiler Plus</i>	3	17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
YK8JF6	<i>Identifiler® Plus</i>	3	17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
YLFLH4	<i>PowerPlex® 16</i>	3			14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
YVMH2Z	<i>Identifiler® Plus</i>	3	17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
YZJYKL	<i>Identifiler® Identifiler Plus</i>	3	17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,[34],35		X	10	20,23
					9,9.3	8,9	15,17
Z69WN3	<i>Identifiler® Plus</i>	3	17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 3

Z98CYC	<i>Identifiler®</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
ZBVLBX	<i>Identifiler® Plus</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17
ZF8JWZ	<i>Identifiler® Plus</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
ZHV9ZD	<i>PowerPlex® 16 HS</i>						
	3				14,17	12,13	8,10
		11,14			8,12	11	12,17
			30,35		X	10	20,23
		8,13	12,14		9,9.3	8,9	15,17
ZN6AFP	<i>COfiler® and Profiler Plus® 10</i>						
	3				14,17	12,13	8,10
		11,14			8,12		12,17
			30,35		X,X		20,23
							15,17
ZWETHL	<i>Identifiler®</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
ZWEV9P	<i>Identifiler® , MiniFiler</i>						
	3		17,19		14,17	12,13	8,10
		11,14			8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
					9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4							
4ZPPWL	<i>COfiler® and Profiler Plus®</i>						
	4				15,16	11,12	9,11
		11,16			8,12		15,17
			28,31.2		X,Y		20,21
							14,17
EZPP23	<i>PowerPlex® Fusion, NGM SElect</i>						
	4	11,12,15	17,19,23,25	10,11,14	14,15,16,17	11,12,13	8,9,10,11
		11,14,16	12,14,15	18,19,20,22	8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35	15,16,17	X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15	14,22,29.2,30.2	9,9.3,10	8,9,11	14,15,17
LG8X36	<i>Identifiler Plus</i>						
	4		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
MVNDKV	<i>Identifiler® Plus, NGM Select</i>						
	4	11,12,15	17,19,23,25	10,11,14	14,15,16,17	11,12,13	8,9,10,11
		11,14,16	12,14,15	18,19,20,22	8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35	15,16,17	X,Y	10,11,12	20,21,23
				14,22,29.2,90.2	9,9.3,10	8,9,11	14,15,17
VPVYFM	<i>NGM Select</i>						
	4	11,[12],15	17,19,23,25	[10],11,14	[14],15,16,[17]	-	-
		11,[14],16	12,[14],15	[18],19,[20],22	-	[11],12	[12],15,17
		[12],15.2,16,[16.2]	28,[30],31.2,[35]	15,[16],[17]	X,Y	-	20,21,[23]
		-	-	[14],[22],29.2,30.2	9,10	-	14,[15],17
W6JG3V	<i>Identifiler®</i>						
	4		[17],[19],23,25		[14],15,16,[17]	11,12,[13]	[8],9,[10],11
		11,[14],16			8,12	[11],12	[12],15,17
		[12],15.2,16,[16.2]	28,[30],31.2,[35]		X,Y	10,11,12	20,21,[23]
					9,[9.3],10	8,[9],11	14,[15],17
X7PJ4K	<i>PowerPlex® Fusion & ESI_17</i>						
	4	11,12,15	17,19,23,25	10,11,14	14,15,16,17	11,12,13	8,9,10,11
		11,14,16	12,14,15	18,19,20,22	8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35	15,16,17	X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15	14,22,29.2,30.2	9,9.3,10	8,9,11	14,15,17
ZN6AFP	<i>COfiler® and Profiler Plus® 10</i>						
	4				15,16	11,12	9,11
		11,16			8,12		15,17
			28,31.2		X,Y		20,21
							14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4e							
26J3JJ	PowerPlex® 16 HS, NGM SElect						
	4e	12,15 11,14 12,16.2 8,13	17,19 14,15 30,35 12,14	10,11 18,20 16,17 14,22	14,17 8,12 X 9,9.3	12,13 11 10 8,9	8,10 12,17 20,23 15,17
2FBGQV	Identifiler® Plus						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
2GW63V	Identifiler®						
	4e	N/A 11,[14],16 12,15.2,[16],[16.2] N/A	[17],[19],23,25 N/A 28,[30],31.2,[35] N/A	N/A N/A N/A N/A	[14],15,16,[17] 8,12 X,Y 9,[9.3],10	11,12,[13] 11,12 10,11,12 8,[9],11	[8],9,[10],11 [12],15,17 20,21,[23] 14,[15],17
2M7N2N	Identifiler® Plus						
	4e	11,14,[16] 12,[15.2],[16],16.2	17,19,[23],[25] [28],30,[31.2],35		14,[15],[16],17 8,12 X,[Y] 9,9.3,[10]	[11],12,13 11,[12] 10,[11],[12] 8,9,[11]	8,[9],10,[11] 12,[15],17 20,[21],23 [14],15,17
2QACPQ	Identifiler® Plus						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
34C37P	Identifiler® Plus						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,X,[Y] 9,9.3,[10]	11,12,13 11,12 10,[11],[12] 8,9,[11]	8,9,10,11 12,15,17 20,21,23 [14],15,17
34PWK4	PowerPlex® 16						
	4e	11,14,16 8,9,13	28,30,31.2,35 11,12,14,15		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
393CE3	Identifiler® Plus						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
39HVWE	PowerPlex® 16						
	4e	11,14,16 8,9,13	28,30,31.2,35 11,12,14,15		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4e							
3H9G3C	PowerPlex® 16						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17
47DQWY	COfiler® and Profiler Plus®						
	4e				14,(15),(16),17	11,12,13	8,(9),10,(11)
		11,14,(16)			8,12	11,(12)	12,(15),17
			28,30,31.2,35		X,(Y)	10,(11),(12)	20,21,23
					9,9.3,(10)	8,9,(11)	14,15,17
483WEA	Identifiler®						
	4e		17,19,[23,25]		14,[15,16],17	[11],12,[12],13	8,[9],10,[11]
		11,[11],14,[16]			8,[8],12,[12]	11,11,[12,12]	12,[15],17,[17]
		12,[15.2,16],16.2	[28],30,[31.2],35		X,X,[X,Y]	10,10,[11,12]	20,[20,21],23
					9,[9],9.3,[10]	8,[8],9,[11]	[14],15,17,[17]
4BQ7QW	PowerPlex® 16						
	4e				[14],15,16,[17]	11,12,[13]	[8],9,[10],11
		11,[14],[16]			8,12	11,12	[12],15,17
			28,[30],31.2,[35]		X,[Y]	10,11,12	20,21,[23]
		[8],9,13	11,[12],[14],15		9,[9.3],10	8,[9],11	14,[15],17
4YU8TY	PowerPlex® 16						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17
638JUX	Identifiler® Plus						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
7FR7VJ	Identifiler® Plus						
	4e		17,19,23,25		14,15,16,17	(11),12,(13)	8,9,10,11
		11,(14),(16)			8,12	11,(12)	(12),(15),17
		12,15.2,16,16.2	28,(30),31.2,(35)		X,(Y)	10,(11),(12)	20,(21),(23)
					9,(9.3),(10)	8,(9),(11)	(14),(15),17
7RMDXU	PowerPlex® 16 HS						
	4e				14,15,16,17	11,12,[13]	8,9,10,11
		11,14,[16]			8,12	11,[12]	12,[15],17
			28,30,31.2,35		X,[Y]	10,[11],[12]	20,[21],[23]
		8,[9],13	11,12,14,[15]		9,[9.3],[10]	8,[9],[11]	[14],[15],17
8GKCVA	PowerPlex® 16						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4e							
8UKD9B	ESX16						
	4e	11,12,15 11,14,16 12,15.2,16,16.2	17,19,23,25 12,14,15 28,30,31.2,35	10,11,14 18,19,20,22 15,16,17	14,15,16,17 X,Y 9,9.3,10	11,12	12,15,17 20,21,23 14,15,17
9237XF	Identifiler®						
	4e	11,[14],16 [12],15.2,16,[16.2]	[17],[19],23,25 28,[30],31.2,[35]		[14],15,16,[17] 8,12 X,Y 9,[9.3],10	11,12,[13] [11],12 [10],11,12 8,[9],11	[8],9,[10],11 [12],15,17 20,21,[23] 14,[15],17
97D4MM	Identifiler®						
	4e	NA 11,14,16 12,15.2,16,16.2 NA	17,19,23,25 NA 28,30,31.2,35 NA	NA NA NA NA	14,15,16,17 8,12 X,[Y] 9,[9.3],[10]	11,12,13 11,12 10,[11],[12] 8,9,11	8,9,10,11 [12],[15],17 20,[21],[23] 14,15,17
9AGR7J	Identifiler® Plus						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
9BPAYN	Identifiler®						
	4e	N/A 11,[14],16 [12],15.2,16,[16.2] N/A	[17],[19],23,25 N/A 28,[30],31.2,[35] N/A	N/A N/A N/A N/A	[14],15,16,[17] 8,12 X,Y 9,[9.3],10	11,12,[13] 11,12 10,11,12 8,[9],11	[8],9,[10],11 [12],15,17 20,21,[23] 14,[15],17
9FKUAY	PowerPlex® 16						
	4e	11,14,16 8,9,13	28,30,31.2,35 11,12,14,15		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
9KUC8R	Identifiler® Plus						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
9N2CQD	Identifiler® Plus						
	4e	11,14,[16] 12,15.2,[16],16.2	17,19,[23],25 28,30,31.2,[34],35		14,15,16,17 8,12 X,[Y] 9,9.3,[10]	11,12,13 11,[12] 10,[11],[12] 8,9,[11]	8,9,10,11 12,15,17 20,[21],23 14,15,17
9R2GKK							
	4e	11,14,16 12,15.2,16,16.2	17,19,[23],[25] 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 4e

9VWBHL	COfiler® and Profiler Plus®						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
A6EB9F	Identifiler® Plus						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
AADPW6	PowerPlex® 16						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17
AFCJLQ	PowerPlex® 16 HS, ESI 17 PRO						
	4e	11,12,15	17,19,23,25	10,11,14	14,15,16,17	11,12,13	8,9,10,11
		11,14,16	12,14,15	18,19,20,22	8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35	15,16,17	X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15	14,22,29.2,30.2	9,9.3,10	8,9,11	14,15,17
AFFWDT	Identifiler® Identifiler Plus						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
AG72PD	Profiler Plus						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12		12,15,17
			28,30,31.2,35		X,Y		20,21,23
							14,15,17
AL4GGA	Identifiler Plus						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,[34*],35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
AUYJMR	PowerPlex® 16						
	4e				14,15,16,17	[11],12,[13]	8,9,10,11
		11,[14],[16]			8,12	11,[12]	12,[15],17
			28,30,31.2,35		X,[Y]	10,[11],[12]	20,[21],[23]
		8,[9],13	11,12,14,15		9,[9.3],[10]	8,[9],[11]	14,[15],17
B9UZB4	Identifiler®						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4e							
B9VXKZ	PowerPlex® 16						
	4e				14,15,16,17	11,12,13	8,9,10,11
	11,14,16				8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
	8,9,13		11,12,14,15		9,9.3,10	8,9,11	14,15,17
BMWRR3	PowerPlex® 16 HS						
	4e				14,15,16,17	11,12,13	8,9,10,11
	11,14,16				8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
	8,9,13		11,12,14,15		9,9.3,10	8,9,11	14,15,17
BN4AQX	PowerPlex® 16						
	4e				14,15,16,17	11,12,13	8,9,10,11
	11,14,16				8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
	8,9,13		11,12,14,15		9,9.3,10	8,9,11	14,15,17
BPXZWD	Identifiler®						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
	11,14,16				8,12	11,12	12,15,17
	12,15.2,16,16.2		28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
BVBD3R	Identifiler®						
	4e		17,19,[23],[25]		14,[15],[16],17	[11],12,13	8,[9],10,[11]
	11,14,[16]				8,12	11,[12]	12,[15],17
	12,[15.2],[16],16.2		[28],30,[31.2],35		X,[Y]	10,[11],[12]	20,[21],23
					9,9.3,[10]	8,9,[11]	[14],15,17
BWJWHE	Identifiler® Plus						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
	11,14,16				8,12	11,12	12,15,17
	12,15.2,16,16.2		28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
BYARQG	Identifiler® Plus						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
	11,14,16				8,12	11,12	12,15,17
	12,15.2,16,16.2		28,30,31.2,35		X,X,[Y]	10,10,[11,12]	20,[21],23
					9,9.3,[10]	8,9,11	14,15,17
C368CA	Identifiler®						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
	11,14,16				8,12	11,12	12,15,17
	12,15.2,16,16.2		28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
C3JGHP	PowerPlex® HS, ESX, NGM						
	4e	11,12,15	17,19,23,25	10,11,14	14,15,16,17	11,12,13	8,9,10,11
	11,14,16		12,14,15	18,19,20,22	8,12	11,12	12,15,17
	12,15.2,16,16.2		28,30,31.2,35	15,16,17	X,Y	10,11,12	20,21,23
	8,9,13		11,12,14,15	14,22,29.2,30.2	9,9.3,10	8,9,11	14,15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4e							
C4YQFW	PowerPlex® 16						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17
C8E9QL	Identifiler®						
	4e	N/A	[17],[19],23,25	N/A	[14],15,16,[17]	11,12,[13]	[8],9,[10],11
		11,[14],[16]	N/A	N/A	8,12	11,12	[12],15,17
		[12],15.2,16,[16.2]	28,[30],31.2,[35]	N/A	X,[Y]	10,[11],[12]	20,21,[23]
		N/A	N/A	N/A	9,[9.3],10	8,[9],11	14,[15],17
C999C4	PowerPlex® 16						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17
C9TTGB	COfiler® and Profiler Plus®						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12		12,15,17
			28,30,31.2,35		X,Y		20,21,23
							14,15,17
CEFDPX	PowerPlex® 16						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17
D3JN9N	Identifiler® Plus						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
DRYHCK	Identifiler®						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
DU7Z9U	PowerPlex® 16						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17
DYWEQA	COfiler® and Profiler Plus®						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12		12,15,17
			28,30,31.2,35				20,21,23
							14,15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 4e

E3GGGF	COfiler® and Profiler Plus®						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
E7ZD77	Identifiler® Plus						
	4e		17,19,[23],[25]		14,[15],16,17	11,12,13	8,9,10,11
		11,14,[16]			8,12	11,[12]	12,[15],17
		12,15.2,[16],16.2	28,30,31.2,35		X,[Y]	10,[11],[12]	20,21,23
					9,9.3,[10]	8,9,[11]	[14],15,17
EADJG7	Identifiler® Plus						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
EE6MBA	PowerPlex® 21						
	4e	11,12,15	17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16		18,19,20,22	8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17
EFMJWH	PowerPlex® 21						
	4e	12,15	17,19	-	14,17	12,13	8,10
		11,14	-	18,20	8,12	11,11	12,17
		12,16.2	30,35	-	X,X	10,10	20,23
		8,13	12,14	-	9,9.3	8,9	15,17
ELMXJ6	Identifiler® Plus						
	4e	N/A	17,19,23,25	N/A	14,15,16,17	11,12,13	8,9,10,11
		11,[14],[16]	N/A	N/A	8,12	11,12	12,[15],17
		12,15.2,16,16.2	28,30,31.2,35	N/A	X,[Y]	10,[11],[12]	20,21,23
		N/A	N/A	N/A	9,9.3,[10]	8,9,11	14,15,17
ENUFFF	Identifiler® Plus						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17,18
EUMDBX	Identifiler®						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
FB2EDD	Identifiler® Plus						
	4e	-	17,19,23,25	-	14,15,16,17	11,12,13	8,9,10,11
		11,14,16	-	-	8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35	-	X,Y	10,11,12	20,21,23
		-	-	-	9,9.3,10	8,9,11	14,15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4e							
FFW6KA	<i>Identifiler®</i>						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
FHMC4L	<i>PowerPlex® 16</i>						
	4e	11,14,16 8,9,13	28,30,31.2,35 11,12,14,15		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
FJKF24	<i>Identifiler® Plus, MiniFiler</i>						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
FMYBJL	<i>Identifiler®</i>						
	4e	11,14,[16] 12,[15.2],[16],16.2	17,19,[23],[25] [28],30,[31.2],35		14,[15],[16],17 8,12 X,[Y] 9,9.3,[10]	[11],12,13 11,[12] 10,[11],[12] 8,9,[11]	8,[9],10,[11] 12,[15],17 20,[21],23 [14],15,17
FNTXXB	<i>COfiler® and Profiler Plus®</i>						
	4e	11,14,16	28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
G7QFM7	<i>PowerPlex® 21</i>						
	4e	11,12,15 11,14,16 12,15.2,16,16.2 8,9,13	17,19,23,25 28,30,31.2,35 11,12,14,15	18,19,20,22	14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
G83DWG	<i>Identifiler® Plus</i>						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
GAM67X	<i>Identifiler® Plus</i>						
	4e	11,[14],[16] 12,15.2,16,16.2	17,[19],[23],[25] 28,30,31.2,35		14,15,16,17 8,[12] X,[Y] 9,9.3,[10]	[11],12,[13] 11,[12] 10,[11],[12] 8,[9],[11]	8,9,10,11 [12],[15],17 20,[21],[23] [14],15,17
GHKWC8	<i>Identifiler®</i>						
	4e	11,[14],16 [12],15.2,16,[16.2]	17,19,23,24 28,30,31.2,35		14,15,16,17 8,12 X,[Y] 9,[9.3],[10]	11,12,13 [11],12 10,[11],[12] 8,[9],[11]	8,[9],10,11 12,15,17 20,21,23 [14],[15],17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4e							
GQVYZT	PowerPlex® 16						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17
GTX47L	PowerPlex® 16						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17
GUV844	Identifiler® Plus						
	4e		17,19,[23],25		14,15,[16],17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,[Y]	10,[11],[12]	20,21,23
					9,9.3,[10]	8,9,[11]	[14],15,17
GW2UG8	Identifiler®						
	4e		17,19,23,25		14,15,16,17		8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
GXWBU6	Identifiler®						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
H4E4KU	Identifiler®						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
H7KTGC	Identifiler®						
	4e		17,19,[23],[25]		14,[15],[16],17	[11],12,13	8,[9],10,[11]
		11,14,[16]			8,12	11,[12]	12,[15],17
		12,[15.2],16,16.2	[28],30,[31.2],35		X,[Y]	10,[11],[12]	20,[21],23
					9,9.3,[10]	8,9,[11]	[14],15,17
HDJBZU	Identifiler®						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
HJTBE7	Identifiler® Plus, PowerPlex® PP16 HS, ESX-CS7						
	4e	12,15	17,19	10,11	14,17	12,13	8,10
		11,14	14,15	18,20	8,12	11	12,17
		12,16.2	30,35	16,17	X,X	10	20,23
		8,13	12,14	14,22	9,9.3	8,9	15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 4e

HWV2W6	<i>Identifiler®</i>						
	4e	11,16 15.2,16	23,25 28,31.2		14,15,16 8,12 X,Y 9,10	11,12 11,12 10,11,12 8,11	9,11 15,17 20,21 14,17
J88Q9F	<i>Identifiler® Plus</i>						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
KGFG6	<i>Identifiler® Plus</i>						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
KZ9J97	<i>Identifiler® Plus</i>						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
L2ZXCA	<i>Identifiler® Plus</i>						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
L6XDMJ	<i>Identifiler® Plus</i>						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
LFYNA9	<i>PowerPlex® 16</i>						
	4e	11,14,16 8,9,13	28,30,31.2,35 11,12,14,15		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
LRR772	<i>Identifiler Plus</i>						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
LT2ER7	<i>Identifiler® Plus</i>						
	4e	- 11,14,16 12,15.2,16,16.2 -	17,19,23,25 - 28,30,31.2,35 -	- - - -	14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17

TABLE 1

WebCode	Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
		D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
		D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
		Penta D	Penta E	SE33	TH01	TPOX	vWA
Item 4e							
ML366E	COfiler® and Profiler Plus®						
	4e				14,[15],[16],17	[11],12,13	8,[9],10,[11]
		11,14,[16]			8,12	11,[12]	12,[15],17
			[28],30,[31.2],35		X,[Y]	10,[11],[12]	20,[21],23
					9,9.3	8,9,[11]	[14],15,17
NA7GN6	Identifiler® Plus						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,X,(Y)	10,(11,12)	20,21,23
					9,9.3,10	8,9,(11)	14,15,17
NBDJQ4	Identifiler®						
	4e		17,19		14,17	12,13	8,10
		11,14			8,12	11	12,17
		12,16.2	30,35		X	10	20,23
					9,9.3	8,9	15,17
NJTCP7	COfiler® and Profiler Plus®						
	4e	-	-	-	14,15,16,17	11,12,13	8,9,10,11
		11,14,16	-	-	8,12	11,12	12,15,17
		-	28,30,31.2,35	-	X,Y	10,11,12	20,21,23
		-	-	-	9,9.3,10	8,9,11	14,15,17
NTG9PL	PowerPlex® 16						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17
NVJ9PJ	PowerPlex® 16						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	12,14		9,9.3,10	8,9,11	14,15,17
NYKYAC	Identifiler®						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,[14],[16]			8,12	11,[12]	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,[Y]	10,[11],[12]	20,[21],[23]
					9,[9.3],[10]	8,[9],[11]	[14],[15],17
P2N6B4	Identifiler® Plus						
	4e	-	17,19,23,(25)	-	14,15,16,17	11,12,13	8,9,10,11
		11,14,16	-	-	8,12	11,12	12,(15),17
		12,15.2,16,16.2	28,30,31.2,35	-	X,X,(Y)	10,(11),(12)	20,21,23
		-	-	-	9,9.3,(10)	8,9,(11)	(14),15,17
PC626A	PowerPlex® Fusion						
	4e	11,12,15	17,19,23,25	10,11,14	14,15,16,17	11,12,13	8,9,10,11
		11,14,16	12,14,15	18,19,20,22	8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35	15,16,17	X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4e							
PDKB63	<i>Identifiler® Plus</i>						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,(16)			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,X,(Y)	10,10,(11),(12)	20,21,23
					9,9.3,10	8,9,(11)	14,15,17
PHW9Q4	<i>Identifiler® Plus</i>						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
PYXB42	<i>PowerPlex® 16 HS, Globalfiler</i>						
	4e	11,12,15	17,19,23,25	10,11,14	14,15,16,17	11,12,13	8,9,10,11
		11,14,16	12,14,15	18,19,20,22	8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35	15,16,17	X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15	14,22,29.2,30.2	9,9.3,10	8,9,11	14,15,17
Q7D8R9	<i>PowerPlex® 16</i>						
	4e				[14],15,16,[17]	11,12,[13]	[8],9,[10],11
		11,[14],[16]			8,12	11,12	[12],15,17
			28,[30],31.2,[35]		X,[Y]	10,11,12	20,21,[23]
		[8],9,13	11,[12],[14],15		9,[9.3],[10]	8,[9],[11]	14,[15],17
QADFWJ	<i>PowerPlex® 16</i>						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17
QCLPQ2	<i>COfiler® and Profiler Plus®</i>						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,[34],35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
QMHH8	<i>Identifiler®</i>						
	4e	N/A	[17],[19],23,25	N/A	[14],15,16,[17]	11,12,[13]	[8],9,[10],11
		11,[14],16	N/A	N/A	8,12	[11],12	[12],15,17
		[12],15.2,16,[16.2]	28,[30],31.2,[35]	N/A	X,[Y]	[10],11,12	20,21,[23]
		N/A	N/A	N/A	9,[9.3],10	8,[9],11	14,[15],17
QP9ZD8	<i>Identifiler® Plus</i>						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
QTNANP	<i>PowerPlex® 16</i>						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 4e

QYB3UX	<i>Profiler Plus</i>						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12		12,15,17
			28,30,31.2,35		X,Y		20,21,23
							14,15,17
R2BRBW	<i>Identifiler® Identifiler Plus</i>						
	4e		23,25		14,15,16	11,12	9,11
		11,16			8,12	11,12	15,17
		15.2,16	28,31.2		X,Y	10,11,12	20,21
					9,10	8,11	14,17
R42YU9	<i>PowerPlex® 16</i>						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17
RDCXP6	<i>Goldeneye 20A</i>						
	4e		17,19		14,17	12,13	8,10
		11,14		18,20	8,12	11,11	12,17
		12,16.2	30,35		X,X	10,10	20,23
		8,13	12,14		9,9.3	8,9	15,17
RHPV2X	<i>Identifiler®</i>						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
RPMLM9	<i>Identifiler® Identifiler Plus</i>						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
TBGUFU	<i>PowerPlex® PP21</i>						
	4e	11,12,15	17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16		18,19,20,22	8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17
TCRW3T	<i>Identifiler® Plus</i>						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
TDMF7F	<i>PowerPlex® 16</i>						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4e							
TUCKDA	PowerPlex® 16						
	4e				[14],15,16,[17]	11,12,[13]	[8],9,[10],11
		11,[14],16			8,12	[11],12	[12],15,17
			28,[30],31.2,[35]		X,Y	10,11,12	20,[21],[23]
		[8],9,13	11,[12],[14],[15]		9,[9.3],10	8,[9],11	14,[15],17
TUV79K	Identifiler®						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
TW2RWK	PowerPlex® PowerPlex® 16 HS						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17
U8EF24	Identifiler®						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
UEWQF6	PowerPlex® Fusion						
	4e	11,12,15	17,19,23,25	10,11,14	14,15,16,17	11,12,13	8,9,10,11
		11,14,16	12,14,15	18,19,20,22	8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35	15,16,17	X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17
UFR8R2	Identifiler®						
	4e	N/A	[17],[19],23,25	N/A	[14],15,16,[17]	11,12,[13]	[8],9,[10],11
		11,[14],16	N/A	N/A	8,12	11,12	[12],15,17
		[12],15.2,16,[16.2]	28,[30],31.2,[35]	N/A	X,[Y]	10,11,12	20,21,[23]
		N/A	N/A	N/A	9,9.3,10	8,[9],11	14,[15],17
UNJMG6	Identifiler® Plus						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
UPW8B2	COfiler® and Profiler Plus®						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
UYMTGY	COfiler® and Profiler Plus®						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4e							
V7YFKZ	<i>Identifiler® Plus</i>						
	4e	-	17,19,23,25	-	14,15,16,17	11,12,13	8,9,10,11
		11,14,16	-	-	8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35	-	X,Y	10,11,12	20,21,23
		-	-	-	9,9.3,10	8,9,11	14,15,17
V94W24	<i>Identifiler® Plus</i>						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
VBCC7N	<i>IDENTIFILER Plus</i>						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,(34),35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
VEBM4A	<i>Identifiler® Plus</i>						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
VGGVPM	<i>NGM Select</i>						
	4e	[11],12,15	17,19,[23],[25]	10,11,[14]	14,[15],[16],17		
		11,14,[16]	[12],14,15	18,[19],20,[22]		11,[12]	12,[15],17
		12,[15.2],[16],16.2	[28],30,[31.2],35	[15],16,17	X,[Y]		20,[21],23
				14,22,[29.2],[30.2]	9,9.3,[10]		[14],15,17
VHVFFC	<i>PowerPlex® 16</i>						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17
VMK236	<i>PowerPlex® HS, NGM SElect</i>						
	4e	11,12,15	17,19,23,25	10,11,14	14,15,16,17	11,12,13	8,9,10,11
		11,14,16	12,14,15	18,19,20,22	8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35	15,16,17	X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15	14,22,29.2,30.2	9,9.3,10	8,9,11	14,15,17
VPG9UW	<i>Identifiler Plus</i>						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,X,(Y)	10,(11),(12)	20,21,23
					9,9.3,(10)	8,9,11	14,15,17
W2F8V	<i>Identifiler®</i>						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4e							
WWFXB2	COfiler® and Profiler Plus®						
	4e	-	-	-	14,15,16,17	11,12,13	8,9,10,11
		11,14,16	-	-	8,12	11,12	12,15,17
		-	28,30,31.2,35	-	X,Y	10,11,12	20,21,23
		-	-	-	9,9.3,10	8,9,11	14,15,17
VYF93U	Identifiler®						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
W2PF6M	Identifiler Plus						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,[34],35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
W8P2QV	Identifiler®						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
WCZ3VZ	Identifiler®						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
WEMQ8Z	Identifiler®						
	4e	N/A	[17],[19],23,25	N/A	[14],15,16,[17]	11,12,[13]	[8],9,[10],11
		11,[14],16	N/A	N/A	8,12	11,12	[12],15,17
		[12],15.2,16,[16.2]	28,[30],31.2,[35]	N/A	X,[Y]	10,11,[12]	20,21,[23]
		N/A	N/A	N/A	9,[9.3],10	8,[9],11	14,[15],17
WJMV8Y	COfiler® and Profiler Plus®						
	4e	-	-	-	14,15,16,17	11,12,13	8,9,10,11
		11,14,16	-	-	8,12	11,12	12,15,17
		-	28,30,31.2,35	-	X,Y	10,11,12	20,21,23
		-	-	-	9,9.3,10	8,9,11	14,15,17
WM7MJ3	PowerPlex® 16 HS						
	4e				14,15,16,17	[11],12,13	8,[9],10,[11]
		11,14,[16]			8,12	11,[12]	12,[15],17
			28,30,[31.2],35		X,[Y]	10,[11],[12]	20,[21],23
		8,[9],13	[11],12,14,[15]		9,[9.3],[10]	8,9,[11]	[14],15,17
WRAZU6	PowerPlex® 16						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4e							
WZ9FMJ	PowerPlex® 16						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17
XADQRN	Identifiler®						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
XKATWH	Identifiler® Plus						
	4e		17,19,[23],[25]		14,15,16,17	[11],12,[13]	8,9,10,11
		11,[14],[16]			8,12	11,[12]	[12],[15],17
		12,[15.2],[16],[16.2]	28,30,31.2,35		X,[Y]	10,[11],[12]	20,[21],[23]
					9,[9.3],[10]	8,9,[11]	[14],[15],17
Y4D48Y	Identifiler®						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
YHY9N8	Identifiler Plus						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
YK8JF6	Identifiler® Plus						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
YLFLH4	PowerPlex® 16						
	4e				14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
			28,30,31.2,35		X,Y	10,11,12	20,21,23
		8,9,13	11,12,14,15		9,9.3,10	8,9,11	14,15,17
YVMH2Z	Identifiler® Plus						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17
YZJYKL	Identifiler® Identifiler Plus						
	4e		17,19,23,25		14,15,16,17	11,12,13	8,9,10,11
		11,14,16			8,12	11,12	12,15,17
		12,15.2,16,16.2	28,30,31.2,[34],35		X,Y	10,11,12	20,21,23
					9,9.3,10	8,9,11	14,15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 4e

Z69WN3	<i>Identifiler® Plus</i>						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
Z98CYC	<i>Identifiler®</i>						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
ZBVLBX	<i>Identifiler® Plus</i>						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
ZF8JWZ	<i>Identifiler® Plus</i>						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
ZHV9ZD	<i>PowerPlex® 16 HS</i>						
	4e	11,14,16 8,9,13	28,30,31.2,35 11,12,14,15		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
ZWETHL	<i>Identifiler®</i>						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17
ZWEV9P	<i>Identifiler® , MiniFiler</i>						
	4e	11,14,16 12,15.2,16,16.2	17,19,23,25 28,30,31.2,35		14,15,16,17 8,12 X,Y 9,9.3,10	11,12,13 11,12 10,11,12 8,9,11	8,9,10,11 12,15,17 20,21,23 14,15,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 4sp

26J3JJ	<i>PowerPlex® 16 HS, NGM SElect</i>	4sp	11,15	23,25	11,14	15,16	11,12	9,11
			11,16	12,15	19,22	8,12	12	15,17
			15.2,16	28,31.2	15	X,Y	11,12	20,21
			9,13	11,15	29.2,30.2	9,10	8,11	14,17
2FBGQV	<i>Identifiler® Plus</i>	4sp		23,25		15,16	11,12	9,11
			11,16			8,12	12,12	15,17
			15.2,16	28,31.2		X,Y	11,12	20,21
						9,10	8,11	14,17
2GW63V	<i>Identifiler®</i>	4sp	N/A	23,25	N/A	15,16	11,12	9,11
			11,16	N/A	N/A	8,12	12,12	15,17
			15.2,16	28,31.2	N/A	X,Y	11,12	20,21
			N/A	N/A	N/A	9,10	8,11	14,17
2M7N2N	<i>Identifiler® Plus</i>	4sp		23,25		15,16	11,12	9,11
			11,16			8,12	12	15,17
			15.2,16	28,31.2		X,Y	11,12	20,21
						9,10	8,11	14,17
2QACPQ	<i>Identifiler® Plus</i>	4sp		23,25		15,16	11,12	9,11
			11,16			8,12	12,12	15,17
			15.2,16	28,31.2		X,Y	11,12	20,21
						9,10	8,11	14,17
34C37P	<i>Identifiler® Plus</i>	4sp		23,25		15,16	11,12	9,11
			11,16			8,12	12,12	15,17
			15.2,16	28,31.2		X,Y	11,12	20,21
						9,10	8,11	14,17
34PWK4	<i>PowerPlex® 16</i>	4sp				15,16	11,12	9,11
			11,16			8,12	12	15,17
				28,31.2		X,Y	11,12	20,21
			9,13	11,15		9,10	8,11	14,17
393CE3	<i>Identifiler® Plus</i>	4sp		23,25		15,16	11,12	9,11
			11,16			8,12	12,12	15,17
			15.2,16	28,31.2		X,Y	11,12	20,21
						9,10	8,11	14,17
39HVWE	<i>PowerPlex® 16</i>	4sp				15,16	11,12	9,11
			11,16			8,12	12	15,17
				28,31.2		X,Y	11,12	20,21
			9,13	11,15		9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 4sp

3H9G3C	<i>PowerPlex® 16</i> 4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
47DQWY	<i>COfiler® and Profiler Plus®</i> 4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
483WEA	<i>Identifiler®</i> 4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
4BQ7QW	<i>PowerPlex® 16</i> 4sp				15,16	11,12	9,11
		11,16			8,12	12,12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
4YU8TY	<i>PowerPlex® 16</i> 4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,11
		9,13	11,15		9,10	8,11	14,17
638JUX	<i>Identifiler® Plus</i> 4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
7FR7VJ	<i>Identifiler® Plus</i> 4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
7RMDXU	<i>PowerPlex® 16 HS</i> 4sp				15,16	11,12	9,11
		11,16			8,12	12,12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
8GKCVA	<i>PowerPlex® 16</i> 4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4sp							
8UKD9B	ESX16						
	4sp	11,15 11,16 15.2,16	23,25 12,15 28,31.2	11,14 19,22 15	15,16 X,Y 9,10	12	15,17 20,21 14,17
9237XF	Identifiler®						
	4sp	11,16 15.2,16	23,25 28,31.2		15,16 8,12 X,Y 9,10	11,12 12,12 11,12 8,11	9,11 15,17 20,21 14,17
97D4MM	Identifiler®						
	4sp	NA 11,16 15.2,16 NA	23,25 NA 28,31.2 NA	NA NA NA NA	15,16 8,12 X,Y 9,10	11,12 12 11,12 8,11	9,11 15,17 20,21 14,17
9AGR7J	Identifiler® Plus						
	4sp	11,16 15.2,16	23,25 28,31.2		15,16 8,12 X,Y 9,10	11,12 12,12 11,12 8,11	9,11 15,17 20,21 14,17
9BPAYN	Identifiler®						
	4sp	N/A 11,16 15.2,16 N/A	23,25 N/A 28,31.2 N/A	N/A N/A N/A N/A	15,16 8,12 X,Y 9,10	11,12 12,12 11,12 8,11	9,11 15,17 20,21 14,17
9FKUAY	PowerPlex® 16						
	4sp	11,16 9,13	28,31.2 11,15		15,16 8,12 X,Y 9,10	11,12 12 11,12 8,11	9,11 15,17 20,21 14,17
9KUC8R	Identifiler® Plus						
	4sp	11,16 15.2,16	23,25 28,31.2		15,16 8,12 X,Y 9,10	11,12 12 11,12 8,11	9,11 15,17 20,21 14,17
9N2CQD	Identifiler® Plus						
	4sp	11,16 15.2,16	23,25 28,31.2		15,16 8,12 X,Y 9,10	11,12 12 11,12 8,11	9,11 15,17 20,21 14,17
9R2GKK							
	4sp	11,16 15.2,16	23,25 28,31.2		15,16 8,12 X,Y 9,10	11,12 12,12 11,12 8,11	9,11 15,17 20,21 14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4sp							
9VWBHL	COfiler® and Profiler Plus®						
	4sp				15,16	11,12	9,11
		11,16			8,12	12,12	15,17
			28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
A6EB9F	Identifiler® Plus						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
AADPW6	PowerPlex® 16						
	4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
AFCJLQ	PowerPlex® 16 HS, ESI 17 PRO						
	4sp	11,15	23,25	11,14	15,16	11,12	9,11
		11,16	12,15	19,22	8,12	12,12	15,17
		15.2,16	28,31.2	15,15	X,Y	11,12	20,21
		9,13	11,15	29,30.2	9,10	8,11	14,17
AFFWDT	Identifiler® Identifiler Plus						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
AG72PD	Profiler Plus						
	4sp				15,16	11,12	9,11
		11,16			8,12		15,17
			28,31.2		X,Y		20,21
							14,17
AL4GGA	Identifiler Plus						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
AUYJMR	PowerPlex® 16						
	4sp				15,16	11,12	9,11
		11,16			8,12	12,12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
B9UZB4	Identifiler®						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 4sp

B9VXKZ	PowerPlex® 16	4sp			15,16	11,12	9,11	
			11,16		8,12	12	15,17	
				28,31.2	X,Y	11,12	20,21	
			9,13	11,15	9,10	8,11	14,17	
BMWRR3	PowerPlex® 16 HS	4sp			15,16	11,12	9,11	
			11,16		8,12	12	15,17	
				28,31.2	X,Y	11,12	20,21	
			9,13	11,15	9,10	8,11	14,17	
BN4AQX	PowerPlex® 16	4sp			15,16	11,12	9,11	
			11,16		8,12	12	15,17	
				28,31.2	X,Y	11,12	20,21	
			9,13	11,15	9,10	8,11	14,17	
BPXZWD	Identifiler®	4sp		23,25	15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2	X,Y	11,12	20,21	
					9,10	8,11	14,17	
BVBD3R	Identifiler®	4sp		23,25	15,16	11,12	9,11	
			11,16		8,12	12	15,17	
			15.2,16	28,31.2	X,Y	11,12	20,21	
					9,10	8,11	14,17	
BWJWHE	Identifiler® Plus	4sp		23,25	15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2	X,Y	11,12	20,21	
					9,10	8,11	14,17	
BYARQG	Identifiler® Plus	4sp		23,25	15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2	X,Y	11,12	20,21	
					9,10	8,11	14,17	
C368CA	Identifiler®	4sp		23,25	15,16	11,12	9,11	
			11,16		8,12	12	15,17	
			15.2,16	28,31.2	X,Y	11,12	20,21	
					9,10	8,11	14,17	
C3JGHP	PowerPlex® HS, ESX, NGM	4sp	11,15	23,25	11,14	15,16	11,12	9,11
			11,16	12,15	19,22	8,12	12	15,17
			15.2,16	28,31.2	15	X,Y	11,12	20,21
			9,13	11,15	29.2,30.2	9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 4sp

C4YQFW	PowerPlex® 16 4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
C8E9QL	Identifiler® 4sp	N/A	23,25	N/A	15,16	11,12	9,11
		11,16	N/A	N/A	8,12	12,12	15,17
		15.2,16	28,31.2	N/A	X,Y	11,12	20,21
		N/A	N/A	N/A	9,10	8,11	14,17
C999C4	PowerPlex® 16 4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
C9TTGB	COfiler® and Profiler Plus® 4sp				15,16	11,12	9,11
		11,16			8,12		15,17
			28,31.2		X,Y		20,21
							14,17
CEFDPX	PowerPlex® 16 4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
D3JN9N	Identifiler® Plus 4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
DRYHCK	Identifiler® 4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
DU7Z9U	PowerPlex® 16 4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
DYWEQA	COfiler® and Profiler Plus® 4sp				15,16	11,12	9,11
		11,16			8,12		15,17
			28,31.2		X,Y		20,21
							14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4sp							
E3GGGF	COfiler® and Profiler Plus®						
	4sp				15,16	11,12	9,11
		11,16			8,12	12,12	15,17
			28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
E7ZD77	Identifiler® Plus						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
EADJG7	Identifiler® Plus						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
EE6MBA	PowerPlex® 21						
	4sp	11,15	23,25		15,16	11,12	9,11
		11,16		19,22	8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
EFMJWH	PowerPlex® 21						
	4sp	11,15	23,25	-	15,16	11,12	9,11
		11,16	-	19,22	8,12	12,12	15,17
		15.2,16	28,31.2	-	X,Y	11,12	20,21
		9,13	11,15	-	9,10	8,11	14,17
ELMXJ6	Identifiler® Plus						
	4sp	N/A	23,25	N/A	15,16	11,12	9,11
		11,16	N/A	N/A	8,12	12	15,17
		15.2,16	28,31.2	N/A	X,Y	11,12	20,21
		N/A	N/A	N/A	9,10	8,11	14,17
ENUFFF	Identifiler® Plus						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
EUMDBX	Identifiler®						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
FB2EDD	Identifiler® Plus						
	4sp	-	23,25	-	15,16	11,12	9,11
		11,16	-	-	8,12	12	15,17
		15.2,16	28,31.2	-	X,Y	11,12	20,21
		-	-	-	9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 4sp

FFW6KA	<i>Identifiler®</i>	4sp	23,25		15,16	11,12	9,11	
			11,16		8,12	12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
FHMC4L	<i>PowerPlex® 16</i>	4sp			15,16	11,12	9,11	
			11,16		8,12	12	15,17	
				28,31.2		X,Y	11,12	20,21
			9,13	11,15		9,10	8,11	14,17
FJKF24	<i>Identifiler® Plus, MiniFiler</i>	4sp	23,25		15,16	11,12	9,11	
			11,16		8,12	12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
FMYBJL	<i>Identifiler®</i>	4sp	23,25		15,16	11,12	9,11	
			11,16		8,12	12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
FNTXXB	<i>COfiler® and Profiler Plus®</i>	4sp			15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
				28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
G7QFM7	<i>PowerPlex® 21</i>	4sp	11,15	23,25		15,16	11,12	9,11
			11,16		19,22	8,12	12,12	15,17
			15.2,16	28,31.2		X,Y	11,12	20,21
			9,13	11,15		9,10	8,11	14,17
G83DWG	<i>Identifiler® Plus</i>	4sp	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
GAM67X	<i>Identifiler® Plus</i>	4sp	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
GHKWC8	<i>Identifiler®</i>	4sp	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 4sp

GQVYZT	PowerPlex® 16 4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
GTX47L	PowerPlex® 16 4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
GUV844	Identifiler® Plus 4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
GW2UG8	Identifiler® 4sp		23,25		15,16		9,11
		11,16			8,12	12,12	14,16
		15.2,16	28,31.2		X,Y	11,12	
					9,10	8,11	14,17
GXWBU6	Identifiler® 4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
H4E4KU	Identifiler® 4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
H7KTGC	Identifiler® 4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
HDJBZU	Identifiler® 4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
HJTBE7	Identifiler® Plus, PowerPlex® PP16 HS, ESX-CS7 4sp	11,15	23,25	11,14	15,16	11,12	9,11
		11,16	12,15	19,22	8,12	12	15,17
		15.2,16	28,31.2	15	X,Y	11,12	20,21
		9,13	11,15	29.2,30.2	9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 4sp

HWV2W6	<i>Identifiler®</i>	4sp	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
J88Q9F	<i>Identifiler® Plus</i>	4sp	23,25		15,16	11,12	9,11	
			11,16		8,12	12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
KGFGR6	<i>Identifiler® Plus</i>	4sp	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
KZ9J97	<i>Identifiler® Plus</i>	4sp	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
L2ZXCA	<i>Identifiler® Plus</i>	4sp	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
L6XDMJ	<i>Identifiler® Plus</i>	4sp	23,25		15,16	11,12	9,11	
			11,16		8,12	12,12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
LFYNA9	<i>PowerPlex® 16</i>	4sp			15,16	11,12	9,11	
			11,16		8,12	12	15,17	
				28,31.2		X,Y	11,12	20,21
			9,13	11,15		9,10	8,11	14,17
LRR772	<i>Identifiler Plus</i>	4sp	23,25		15,16	11,12	9,11	
			11,16		8,12	12	15,17	
			15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17	
LT2ER7	<i>Identifiler® Plus</i>	4sp	-	23,25	-	15,16	11,12	9,11
			11,16	-	-	8,12	12	15,17
			15.2,16	28,31.2	-	X,Y	11,12	20,21
			-	-	-	9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4sp							
ML366E	COfiler® and Profiler Plus®						
	4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
NA7GN6	Identifiler® Plus						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
NBDJQ4	Identifiler®						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
NJTCP7	COfiler® and Profiler Plus®						
	4sp	-	-	-	15,16	11,12	9,11
		11,16	-	-	8,12	12,12	15,17
		-	28,31.2	-	X,Y	11,12	20,21
		-	-	-	9,10	8,11	14,17
NTG9PL	PowerPlex® 16						
	4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
NVJ9PJ	PowerPlex® 16						
	4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
NYKYAC	Identifiler®						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
P2N6B4	Identifiler® Plus						
	4sp	-	23,25	-	15,16	11,12	9,11
		11,16	-	-	8,12	12,12	15,17
		15.2,16	28,31.2	-	X,Y	11,12	20,21
		-	-	-	9,10	8,11	14,17
PC626A	PowerPlex® Fusion						
	4sp	11,15	23,25	11,14	15,16	11,12	9,11
		11,16	12,15	19,22	8,12	12	15,17
		15.2,16	28,31.2	15	X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4sp							
PDKB63	<i>Identifiler® Plus</i>						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
PHW9Q4	<i>Identifiler® Plus</i>						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
PYXB42	<i>PowerPlex® 16 HS, Globalfiler</i>						
	4sp	11,15	23,25	11,14	15,16	11,12	9,11
		11,16	12,15	19,22	8,12	12,12	15,17
		15.2,16	28,31.2	15,15	X,Y	11,12	20,21
		9,13	11,15	29.2,30.2	9,10	8,11	14,17
Q7D8R9	<i>PowerPlex® 16</i>						
	4sp				15,16	11,12	9,11
		11,16			8,12	12,12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
QADFWJ	<i>PowerPlex® 16</i>						
	4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
QCLPQ2	<i>COfiler® and Profiler Plus®</i>						
	4sp				15,16	11,12	9,11
		11,16			8,12	12,12	15,17
			28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
QMHH8	<i>Identifiler®</i>						
	4sp	N/A	23,25	N/A	15,16	11,12	9,11
		11,16	N/A	N/A	8,12	12,12	15,17
		15.2,16	28,31.2	N/A	X,Y	11,12	20,21
		N/A	N/A	N/A	9,10	8,11	14,17
QP9ZD8	<i>Identifiler® Plus</i>						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
QTNANP	<i>PowerPlex® 16</i>						
	4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 4sp

QYB3UX	<i>Profiler Plus</i>						
	4sp				15,16	11,12	9,11
		11,16			8,12		15,17
			28,31.2		X,Y		20,21
							14,17
R2BRBW	<i>Identifiler® Identifiler Plus</i>						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
R42YU9	<i>PowerPlex® 16</i>						
	4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
RDCXP6	<i>Goldeneye 20A</i>						
	4sp		23,25		15,16	11,12	9,11
		11,16		19,22	8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
RHPV2X	<i>Identifiler®</i>						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
RPMLM9	<i>Identifiler® Identifiler Plus</i>						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
TBGUFU	<i>PowerPlex® PP21</i>						
	4sp	11,15	23,25		15,16	11,12	9,11
		11,16		19,22	8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
TCRW3T	<i>Identifiler® Plus</i>						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
TDMF7F	<i>PowerPlex® 16</i>						
	4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 4sp

TUCKDA	PowerPlex® 16						
	4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
TUV79K	Identifiler®						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
TW2RWK	PowerPlex® PowerPlex® 16 HS						
	4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
U8EF24	Identifiler®						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
UEWQF6	PowerPlex® Fusion						
	4sp	11,15	23,25	11,14	15,16	11,12,[13]	9,11
		11,16	12,15	19,22	8,12	12	15,17
		15.2,16	28,31.2	15	X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
UFR8R2	Identifiler®						
	4sp	N/A	23,25	N/A	15,16	11,12	9,11
		11,16	N/A	N/A	8,12	12,12	15,17
		15.2,16	28,31.2	N/A	X,Y	11,12	20,21
		N/A	N/A	N/A	9,10	8,11	14,17
UNJMG6	Identifiler® Plus						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
UPW8B2	COfiler® and Profiler Plus®						
	4sp				15,16	11,12	9,11
		11,16			8,12	12,12	15,17
			28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
UY7LAW	Profiler Plus						
	4sp				15,16	11,12	9,11
		11,16			8,12		15,17
			28,31.2		X,Y		20,21
							14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4sp							
UYMTGY	<i>COfiler® and Profiler Plus®</i>						
	4sp				15,16	11,12	9,11
		11,16			8,12	12,12	15,17
			28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
V7YFKZ	<i>Identifiler® Plus</i>						
	4sp	-	23,25	-	15,16	11,12	9,11
		11,16	-	-	8,12	12	15,17
		15.2,16	28,31.2	-	X,Y	11,12	20,21
		-	-	-	9,10	8,11	14,17
V94W24	<i>Identifiler® Plus</i>						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
VBCC7N	<i>IDENTIFILER Plus</i>						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
VEBM4A	<i>Identifiler® Plus</i>						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
VGGVPM	<i>NGM Select</i>						
	4sp	11,15	23,25	11,14	15,16		
		11,16	12,15	19,22		12,12	15,17
		15.2,16	28,31.2	15,15	X,Y		20,21
				29.2,30.2	9,10		14,17
VHVFFC	<i>PowerPlex® 16</i>						
	4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
VMK236	<i>PowerPlex® HS, NGM SElect</i>						
	4sp	11,15	23,25	11,14	15,16	11,12	9,11
		11,16	12,15	19,22	8,12	12	15,17
		15.2,16	28,31.2	15	X,Y	11,12	20,21
		9,13	11,15	29.2,30.2	9,10	8,11	14,17
VPG9UW	<i>Identifiler Plus</i>						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4sp							
W2F8V	<i>Identifiler®</i>	4sp	23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
VWFXB2	<i>COfiler® and Profiler Plus®</i>	4sp	-	-	15,16	11,12	9,11
		11,16	-	-	8,12	12	15,17
		-	28,31.2	-	X,Y	11,12	20,21
		-	-	-	9,10	8,11	14,17
VYF93U	<i>Identifiler®</i>	4sp	23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
W2PF6M	<i>Identifiler Plus</i>	4sp	23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
W8P2QV	<i>Identifiler®</i>	4sp	23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2			11,12	20,21
					9,10	8,11	14,17
WCZ3VZ	<i>Identifiler®</i>	4sp	23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
WEMQ8Z	<i>Identifiler®</i>	4sp	23,25	N/A	15,16	11,12	9,11
		11,16	N/A	N/A	8,12	12,12	15,17
		15.2,16	28,31.2	N/A	X,Y	11,12	20,21
		N/A	N/A	N/A	9,10	8,11	14,17
WJMV8Y	<i>COfiler® and Profiler Plus®</i>	4sp	-	-	15,16	11,12	9,11
		11,16	-	-	8,12	12,12	15,17
		-	28,31.2	-	X,Y	11,12	20,21
		-	-	-	9,10	8,11	14,17
WM7MJ3	<i>PowerPlex® 16 HS</i>	4sp			15,16	11,12	9,[11]
		11,16			8,12	12,12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
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Item 4sp

WRAZU6	PowerPlex® 16 4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
WZ9FMJ	PowerPlex® 16 4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
XADQRN	Identifiler® 4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
XKATWH	Identifiler® Plus 4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,[12]	20,21
					9,10	8,11	14,17
Y4D48Y	Identifiler® 4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
YHY9N8	Identifiler Plus 4sp		23,25		15,16	11,12	9,11
		11,[14],16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
YK8JF6	Identifiler® Plus 4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17
YLFLH4	PowerPlex® 16 4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
		9,13	11,15		9,10	8,11	14,17
YVMH2Z	Identifiler® Plus 4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
					9,10	8,11	14,17

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4sp							
YZJYKL	<i>Identifiler® Identifiler Plus</i>						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
				9,10	8,11	14,17	
Z69WN3	<i>Identifiler® Plus</i>						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
				9,10	8,11	14,17	
Z98CYC	<i>Identifiler®</i>						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
				9,10	8,11	14,17	
ZBVLBX	<i>Identifiler® Plus</i>						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
				9,10	8,11	14,17	
ZF8JWZ	<i>Identifiler® Plus</i>						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
				9,10	8,11	14,17	
ZHV9ZD	<i>PowerPlex® 16 HS</i>						
	4sp				15,16	11,12	9,11
		11,16			8,12	12	15,17
			28,31.2		X,Y	11,12	20,21
	9,13	11,15		9,10	8,11	14,17	
ZWETHL	<i>Identifiler®</i>						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
				9,10	8,11	14,17	
ZWEV9P	<i>Identifiler® , MiniFiler</i>						
	4sp		23,25		15,16	11,12	9,11
		11,16			8,12	12,12	15,17
		15.2,16	28,31.2		X,Y	11,12	20,21
				9,10	8,11	14,17	

YSTR Results

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
Item 1									
2GW63V	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9BPAYN	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9N2CQD	Yfiler® 1								
AFFWDT	Yfiler® 1								
C8E9QL	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENUFFF	Yfiler® 1	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
FB2EDD	Yfiler® 1	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
FHMC4L	1								13
LT2ER7	Yfiler® 1	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
QMHHH	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 1

V7YFKZ	Yfiler®								
	1	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-

TABLE 2

WebCode	Item	DYS19 DYS437 DYS549	DYS385 DYS438 DYS570	DYS389-I DYS439 DYS576	DYS389-II DYS448 DYS635	DYS390 DYS456 DYS643	DYS391 DYS458 Y GATA H4	DYS392 DYS481 YIndel	DYS393 DYS533
Item 2									
26J3JJ	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	-	-
		-	-	-	23	-	12	-	-
2GW63V	Yfiler® 2	14	11-13	13	29	24	11	14	13
		15	12	13	18	16	17	N/A	N/A
		N/A	N/A	N/A	23	N/A	12	N/A	N/A
2M7N2N	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
2QACPQ	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
393CE3	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
39HVWE	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
4YU8TY	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
638JUX	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
7RMDXU	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
97D4MM	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	NA	NA
		NA	NA	NA	23	NA	12	NA	NA
9AGR7J	PowerPlex® Y 2	14	11,13	13	29	24	11	14	13
		15	12	13					

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
Item 2									
9BPAYN	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	N/A	N/A
		N/A	N/A	N/A	23	N/A	12	N/A	
9FKUAY	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
9KUC8R	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
9R2GKK	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
A6EB9F	PowerPlex® Y 2	14	11,13	13	29	24	11	14	13
		15	12	13					
AFCJLQ	PowerPlex® Y 23 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	24	13
		12	17	18	23	10	12		
AFFWDT	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
BMWRR3	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
BVBD3R	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
BWJWHE	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
C368CA	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		

TABLE 2

WebCode	Item	DYS19 DYS437 DYS549	DYS385 DYS438 DYS570	DYS389-I DYS439 DYS576	DYS389-II DYS448 DYS635	DYS390 DYS456 DYS643	DYS391 DYS458 Y GATA H4	DYS392 DYS481 YIndel	DYS393 DYS533	
Item 2										
C3JGHP	PowerPlex® Y 23	2	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17	24	13
			12	17	18	23	10	12		
C8E9QL	Yfiler®	2	14	11-13	13	29	24	11	14	13
			15	12	13	18	16	17	N/A	N/A
			N/A	N/A	N/A	23	N/A	12	N/A	
C9TTGB	Yfiler®	2	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17		
						23		12		
D3JN9N	Yfiler®	2	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17		
						23		12		
ENUFFF	Yfiler®	2	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17		
						23		12		
EZPP23	PowerPlex® Y 23	2	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17	24	13
			12	17	18	23	10	12		
FB2EDD	Yfiler®	2	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17	-	-
			-	-	-	23	-	12	-	
FHMC4L	Yfiler®	2	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17		
						23		12		
FMYBJL	Yfiler®	2	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17		
						23		12		
G83DW	Yfiler®	2	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17		
						23		12		
GAM67X	Yfiler®	2	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17		
						23		12		

TABLE 2

WebCode	Item	DYS19 DYS437 DYS549	DYS385 DYS438 DYS570	DYS389-I DYS439 DYS576	DYS389-II DYS448 DYS635	DYS390 DYS456 DYS643	DYS391 DYS458 Y GATA H4	DYS392 DYS481 YIndel	DYS393 DYS533
Item 2									
GTX47L	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
GW2UG	PowerPlex® Y 2	14	11,13	13	29	24	11	14	13
		15	12	13					
H4E4KU	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
H7KTGC	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
HJTBE7	PowerPlex® Y 23 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	24	13
		12	17	18	23	10	12		
J88Q9F	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
KGFGR6	PowerPlex® Y 2	14	11,13	13	29	24	11	14	13
		15	12	13					
KZ9J97	PowerPlex® Y 2	14	11,13	13	29	24	11	14	13
		15	12	13					
L2ZXCA	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
L6XDMJ	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
LFYNA9	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel		
Item 2										
LT2ER7	Yfiler®	2	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17	-	-
			-	-	-	23	-	12	-	-
ML366E	Yfiler®	2	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17		
						23		12		
MVNDKV	Yfiler®	2	14	11,13	13	29	24	11		13
			15	12	13	18	16	17		
						23		12		
NYKYAC	Yfiler®	2	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17		
						23		12		
PC626A	PowerPlex® Y 23	2	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17	24	13
			12	17	18	23	10	12		
PHW9Q4	Yfiler®	2	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17		
						23		12		
PYXB42	PowerPlex® Y 23, Globalfiler	2	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17	24	13
			12	17	18	23	10	12	2	
QMHHH	Yfiler®	2	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17	N/A	N/A
			N/A	N/A	N/A	23	N/A	12	N/A	
QP9ZD8	Yfiler®	2	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17	-	-
			-	-	-	23	-	12	-	-
R42YU9	Yfiler®	2	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17		
						23		12		
RDCXP6	Yfiler®	2	14	11-13	13	29	24	11	14	13
			15	12	13	18	16	17		
						23		12		

TABLE 2

WebCode	Item	DYS19 DYS437 DYS549	DYS385 DYS438 DYS570	DYS389-I DYS439 DYS576	DYS389-II DYS448 DYS635	DYS390 DYS456 DYS643	DYS391 DYS458 Y GATA H4	DYS392 DYS481 YIndel	DYS393 DYS533
Item 2									
RHPV2X	PowerPlex® Y	2	14 15	11,13 12	13 13	29	24	11	14 13
RPMLM9	Yfiler®	2	14 15	11,13 12	13 13 23	29 18 23	24 16 12	11 17 12	14 13
TCRW3T	Yfiler®	2	14 15	11,13 12	13 13	29 18 23	24 16 12	11 17 12	14 13
TUCKDA	PowerPlex® Y	2	14 15	11,13 12	13 13	29	24	11	14 13
TW2RWK	Yfiler®	2	14 15	11,13 12	13 13	29 18 23	24 16 12	11 17 12	14 13
UEWQF6	PowerPlex® Y 23	2	14 15 12	11,13 12 17	13 13 18	29 18 23	24 16 10	11 17 12	14 24 13
UFR8R2	Yfiler®	2	14 15 N/A	11-13 12 N/A	13 13 N/A	29 18 23	24 16 N/A	11 17 12	14 N/A N/A
UNJMG6	Yfiler®	2	14 15	11,13 12	13 13	29 18 23	24 16 12	11 17 12	14 13
V7YFKZ	Yfiler®	2	14 15 -	11,13 12 -	13 13 -	29 18 23	24 16 -	11 17 12	14 - -
V94W24	Yfiler®	2	14 15	11,13 12	13 13	29 18 23	24 16 12	11 17 12	14 13
VEBM4A	Yfiler®	2	14 15	11,13 12	13 13	29 18 23	24 16 12	11 17 12	14 13

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
Item 2									
VGGVPM	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
VMK236	PowerPlex® Y 23 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	24	13
		12	17	18	23	10	12		
W2PF6M	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
W6JG3V	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
W8P2QV	PowerPlex® Y 2	14	11-13	13	29	24	11	14	13
		15	12	13					
WRAZU6	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
WZ9FMJ	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
X7PJ4K	PowerPlex® Y 23 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	24	13
		12	17	18	23	10	12		
XADQRN	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
YHY9N8	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
YK8JF6	Yfiler® 2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
Item 2									
YLFLH4	Yfiler®								
	2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
YVMH2Z	Yfiler®								
	2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
YZJYKL									
	2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
Z69WN3	Yfiler®								
	2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
ZF8JWZ	Yfiler®								
	2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
ZHV9ZD	Yfiler®								
	2	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
ZWEV9P	PowerPlex® Y								
	2	14	11,13	13	29	24	11	14	13
		15	12	13					

TABLE 2

WebCode	Item	DYS19 DYS437 DYS549	DYS385 DYS438 DYS570	DYS389-I DYS439 DYS576	DYS389-II DYS448 DYS635	DYS390 DYS456 DYS643	DYS391 DYS458 Y GATA H4	DYS392 DYS481 YIndel	DYS393 DYS533
Item 3									
2GW63V	3	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A
393CE3	Yfiler® 3	NR NR	NR NR	NR NR	NR NR NR	NR NR	NR NR NR	NR	NR
4YU8TY	Yfiler® 3	NR NR	NR NR	NR NR	NR NR NR	NR NR	NR NR NR	NR	NR
638JUX	Yfiler® 3								
7RMDXU	Yfiler® 3	NR NR	NR NR	NR NR	NR NR NR	NR NR	NR NR NR	NR	NR
97D4MM	Yfiler® 3	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA
9BPAYN	3	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A
9R2GKK	Yfiler® 3								
AFFWDT	Yfiler® 3	NR NR	NR NR	NR NR	NR NR NR	NR NR	NR NR NR	NR	NR
ENUFFF	Yfiler® 3	- -	- -	- -	- - -	- -	- - -	-	-
FB2EDD	Yfiler® 3	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -

TABLE 2

WebCode	Item	DYS19 DYS437 DYS549	DYS385 DYS438 DYS570	DYS389-I DYS439 DYS576	DYS389-II DYS448 DYS635	DYS390 DYS456 DYS643	DYS391 DYS458 Y GATA H4	DYS392 DYS481 YIndel	DYS393 DYS533
Item 3									
FHMC4L	Yfiler® 3	NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
G83DW	Yfiler® 3	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
		Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
GTX47L	Yfiler® 3	NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
L2ZXCA	Yfiler® 3	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
L6XDMJ	Yfiler® 3	NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
LFYNA9	Yfiler® 3	NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
LT2ER7	Yfiler® 3	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
PC626A	PowerPlex® Y 23 3								
QMHHH	3	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
QP9ZD8	Yfiler® 3	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
R42YU9	Yfiler® 3	NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 3

RHPV2X	PowerPlex® Y 3								
TW2RWK	Yfiler® 3	NR NR	NR NR	NR NR	NR NR NR	NR NR	NR NR NR	NR	NR
V7YFKZ	Yfiler® 3	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
V94W24	Yfiler® 3	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
VEBM4A	Yfiler® 3	No result No result	No result No result	No result No result	No result No result No result	No result No result	No result No result No result	No result	No result
VHVFFC	PowerPlex® Y 16 3								
WRAZU6	Yfiler® 3	NR NR	NR NR	NR NR	NR NR NR	NR NR	NR NR NR	NR	NR
YHY9N8	Yfiler® 3	NR NR	NR NR	NR NR	NR NR NR	NR NR	NR NR NR	NR	NR
YLFLH4	Yfiler® 3	NR NR	NR NR	NR NR	NR NR NR	NR NR	NR NR NR	NR	NR
Z69WN3	Yfiler® 3	No Results No Results	No Results No Results	No Results No Results	No Results No Results[sic] No Results	No Results No Results	No Results No Results No Results	No Results	No Results

TABLE 2

WebCode	Item	DYS19 DYS437 DYS549	DYS385 DYS438 DYS570	DYS389-I DYS439 DYS576	DYS389-II DYS448 DYS635	DYS390 DYS456 DYS643	DYS391 DYS458 Y GATA H4	DYS392 DYS481 YIndel	DYS393 DYS533
Item 4									
9R2GKK	Yfiler® 4	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
C3JGHP	PowerPlex® Y 23 4	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	24	13
		12	17	18	23	10	12		
EZPP23	PowerPlex® Y 23 4	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	24	13
		12	17	18	23	10	12		
MVNDKV	Yfiler® 4	14	11,13	13	29	24	11		13
		15	12	13	18	16	17		
					23		12		
W6JG3V	Yfiler® 4	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
W8P2QV	PowerPlex® Y 4	14	11-13	13	29	24	11	14	13
		15	12	13					
X7PJ4K	PowerPlex® Y 23 4	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	24	13
		12	17	18	23	10	12		

TABLE 2

WebCode	Item	DYS19 DYS437 DYS549	DYS385 DYS438 DYS570	DYS389-I DYS439 DYS576	DYS389-II DYS448 DYS635	DYS390 DYS456 DYS643	DYS391 DYS458 Y GATA H4	DYS392 DYS481 YIndel	DYS393 DYS533
Item 4e									
26J3JJ	Yfiler® 4e	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
2GW63V	Yfiler® 4e	14 15 N/A	11-13 12 N/A	13 13 N/A	29 18 23	24 16 N/A	11 17 12	14 N/A N/A	13 N/A N/A
2QACPQ	Yfiler® 4e								
393CE3	Yfiler® 4e	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
39HVWE	Yfiler® 4e	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
4YU8TY	Yfiler® 4e	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
638JUX	Yfiler® 4e	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
7RMDXU	Yfiler® 4e	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
97D4MM	Yfiler® 4e	14 15 NA	11,13 12 NA	13 13 NA	29 18 23	24 16 NA	11 17 12	14 NA NA	13 NA NA
9BPAYN	Yfiler® 4e	14 15 N/A	11,13 12 N/A	13 13 N/A	29 18 23	24 16 N/A	11 17 12	14 N/A N/A	13 N/A N/A
9FKUAY	Yfiler® 4e	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
Item 4e									
9KUC8R	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
9N2CQD	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
AFCJLQ	PowerPlex® Y 23 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	24	13
		12	17	18	23	10	12		
AFFWDT	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
BMWRR3	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
BVBD3R	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
BWJWHE	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
C368CA	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
C8E9QL	Yfiler® 4e	14	11-13	13	29	24	11	14	13
		15	12	13	18	16	17	N/A	N/A
		N/A	N/A	N/A	23	N/A	12	N/A	
C9TTGB	Yfiler® 4e								
D3JN9N	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 4e

E7ZD77	Yfiler® 4e								
ENUFFF	Yfiler® 4e	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
FB2EDD	Yfiler® 4e	14 15 -	11,13 12 -	13 13 -	29 18 23	24 16 -	11 17 12	14 - -	13 - -
FHMC4L	Yfiler® 4e	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
FMYBJL	Yfiler® 4e	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
G83DW	Yfiler® 4e	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
GAM67X	Yfiler® 4e	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
GTX47L	Yfiler® 4e	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
GW2UG	PowerPlex® Y 4e	14 15	11,13 12	13 13	29	24	11	14	13
H4E4KU	Yfiler® 4e	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
HJTBE7	PowerPlex® Y 23 4e								

TABLE 2

WebCode	Item	DYS19 DYS437 DYS549	DYS385 DYS438 DYS570	DYS389-I DYS439 DYS576	DYS389-II DYS448 DYS635	DYS390 DYS456 DYS643	DYS391 DYS458 Y GATA H4	DYS392 DYS481 YIndel	DYS393 DYS533
Item 4e									
J88Q9F	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
L2ZXCA	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
L6XDMJ	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
LFYNA9	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
LT2ER7	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	-	-
		-	-	-	23	-	12	-	-
ML366E	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
NYKYAC	Yfiler® 4e								
PC626A	PowerPlex® Y 23 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	24	13
		12	17	18	23	10	12		
PHW9Q4	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
PYXB42	PowerPlex® Y 23, Globalfiler 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	24	13
		12	17	18	23	10	12	2	
QMHHH	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	N/A	N/A
		N/A	N/A	N/A	23	N/A	12	N/A	

TABLE 2

WebCode	Item	DYS19 DYS437 DYS549	DYS385 DYS438 DYS570	DYS389-I DYS439 DYS576	DYS389-II DYS448 DYS635	DYS390 DYS456 DYS643	DYS391 DYS458 Y GATA H4	DYS392 DYS481 YIndel	DYS393 DYS533
Item 4e									
QP9ZD8	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
R42YU9	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
RDCXP6	Yfiler® 4e								
RHPV2X	PowerPlex® Y 4e	14	11,13	13	29	24	11	14	13
		15	12	13					
RPMLM9	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
TCRW3T	Yfiler® 4e								
TUCKDA	PowerPlex® Y 4e	14	11,13	13	29	24	11	14	13
		15	12	13					
TW2RWK	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
UEWQF6	PowerPlex® Y 23 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	24	13
		12	17	18	23	10	12		
UFR8R2	Yfiler® 4e	14	11-13	13	29	24	11	14	13
		15	12	13	18	16	17	N/A	N/A
		N/A	N/A	N/A	23	N/A	12	N/A	
UNJMG6	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
Item 4e									
V7YFKZ	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	-	-
		-	-	-	23	-	12	-	-
V94W24	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
VEBM4A	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
VGGVPM	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
VMK236	PowerPlex® Y 23 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	24	13
		12	17	18	23	10	12		
W2PF6M	Yfiler® 4e	14	11,13	13	29	[23], 24	11	14	13
		15	12	13	18	16	17		
					23		12		
WRAZU6	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
WZ9FMJ	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
XADQRN	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
YHY9N8	Yfiler® 4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
YK8JF6	4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
Item 4e									
YLFLH4	Yfiler®								
	4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
YVMH2Z	Yfiler®								
	4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
YZJYKL	Yfiler®								
	4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
Z69WN3	Yfiler®								
	4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
ZF8JWZ	Yfiler®								
	4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
ZHV9ZD	Yfiler®								
	4e	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
ZWEV9P	PowerPlex® Y								
	4e	14	11,13	13	29	24	11	14	13
		15	12	13					

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
Item 4sp									
26J3JJ	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	-	-
		-	-	-	23	-	12	-	-
2GW63V	Yfiler® 4sp	14	11-13	13	29	24	11	14	13
		15	12	13	18	16	17	N/A	N/A
		N/A	N/A	N/A	23	N/A	12	N/A	N/A
2M7N2N	4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
2QACPQ	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
393CE3	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
39HVWE	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
4YU8TY	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
638JUX	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
7RMDXU	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
97D4MM	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	NA	NA
		NA	NA	NA	23	NA	12	NA	NA
9AGR7J	PowerPlex® Y 4sp	14	11,13	13	29	24	11	14	13
		15	12	13					

TABLE 2

WebCode	Item	DYS19 DYS437 DYS549	DYS385 DYS438 DYS570	DYS389-I DYS439 DYS576	DYS389-II DYS448 DYS635	DYS390 DYS456 DYS643	DYS391 DYS458 Y GATA H4	DYS392 DYS481 YIndel	DYS393 DYS533
Item 4sp									
9BPAYN	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	N/A	N/A
		N/A	N/A	N/A	23	N/A	12	N/A	
9FKUAY	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
9KUC8R	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
9N2CQD	Yfiler® 4sp								
A6EB9F	PowerPlex® Y 4sp	14	11,13	13	29	24	11	14	13
		15	12	13					
AFCJLQ	PowerPlex® Y 23 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	24	13
		12	17	18	23	10	12		
AFFWDT	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
BMWRR3	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
BVBD3R	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
BWJWHE	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
C368CA	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
Item 4sp									
C8E9QL	Yfiler® 4sp	14	11-13	13	29	24	11	14	13
		15	12	13	18	16	17	N/A	N/A
		N/A	M/A	N/A	23	N/A	12	N/A	
C9TTGB	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
D3JN9N	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
E7ZD77	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
ENUFFF	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
FB2EDD	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	-	-
		-	-	-	23	-	12	-	-
FHMC4L	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
FMYBJL	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
G83DW	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
GAM67X	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
GTX47L	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		

TABLE 2

WebCode	Item	DYS19 DYS437 DYS549	DYS385 DYS438 DYS570	DYS389-I DYS439 DYS576	DYS389-II DYS448 DYS635	DYS390 DYS456 DYS643	DYS391 DYS458 Y GATA H4	DYS392 DYS481 YIndel	DYS393 DYS533	
Item 4sp										
GW2UG	PowerPlex® Y	4sp	14	11,13	13	29	24	11	14	13
			15	12	13					
H4E4KU	Yfiler®	4sp	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17		
					23		12			
H7KTGC	Yfiler®	4sp	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17		
					23		12			
HJTBE7	PowerPlex® Y 23	4sp	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17	24	13
			12	17	18	23	10	12		
J88Q9F	Yfiler®	4sp	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17		
					23		12			
KGFG6	PowerPlex® Y	4sp	14	11,13	13	29	24	11	14	13
			15	12	13					
KZ9J97	PowerPlex® Y	4sp	14	11,13	13	29	24	11	14	13
			15	12	13					
L2ZXCA	Yfiler®	4sp	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17		
					23		12			
L6XDMJ	Yfiler®	4sp	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17		
					23		12			
LFYNA9	Yfiler®	4sp	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17		
					23		12			
LT2ER7	Yfiler®	4sp	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17	-	-
			-	-	-	23	-	12	-	-

TABLE 2

WebCode	Item	DYS19 DYS437 DYS549	DYS385 DYS438 DYS570	DYS389-I DYS439 DYS576	DYS389-II DYS448 DYS635	DYS390 DYS456 DYS643	DYS391 DYS458 Y GATA H4	DYS392 DYS481 YIndel	DYS393 DYS533
Item 4sp									
ML366E	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
NYKYAC	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
PC626A	PowerPlex® Y 23 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	24	13
		12	17	18	23	10	12		
PHW9Q4	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
PYXB42	PowerPlex® Y 23, Globalfiler 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	24	13
		12	17	18	23	10	12	2	
QMHHH	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	N/A	N/A
		N/A	N/A	N/A	23	N/A	12	N/A	
QP9ZD8	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
R42YU9	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
RDCXP6	Yfiler® 4sp	14	11-13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
RHPV2X	PowerPlex® Y 4sp	14	11,13	13	29	24	11	14	13
		15	12	13					
RPMLM9	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		

TABLE 2

WebCode	Item	DYS19 DYS437 DYS549	DYS385 DYS438 DYS570	DYS389-I DYS439 DYS576	DYS389-II DYS448 DYS635	DYS390 DYS456 DYS643	DYS391 DYS458 Y GATA H4	DYS392 DYS481 YIndel	DYS393 DYS533
Item 4sp									
TCRW3T	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
TUCKDA	PowerPlex® Y 4sp	14	11,13	13	29	24	11	14	13
		15	12	13					
TW2RWK	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
UEWQF6	PowerPlex® Y 23 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	24	13
		12	17	18	23	10	12		
UFR8R2	Yfiler® 4sp	14	11-13	13	29	24	11	14	13
		15	12	13	18	16	17	N/A	N/A
		N/A	N/A	N/A	23	N/A	12	N/A	
UNJMG6	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
V7YFKZ	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	-	-
		-	-	-	23	-	12	-	
V94W24	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
VEBM4A	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
VGGVPM	Yfiler® 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17		
					23		12		
VMK236	PowerPlex® Y 23 4sp	14	11,13	13	29	24	11	14	13
		15	12	13	18	16	17	24	13
		12	17	18	23	10	12		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 4sp

W2PF6M	Yfiler® 4sp								
WRAZU6	Yfiler® 4sp	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
WZ9FMJ	Yfiler® 4sp	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
XADQRN	Yfiler® 4sp	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
YHY9N8	Yfiler® 4sp	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
YK8JF6	4sp	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
YLFLH4	Yfiler® 4sp	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
YVMH2Z	Yfiler® 4sp	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
YZJYKL	Yfiler® 4sp	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
Z69WN3	Yfiler® 4sp	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13
ZF8JWZ	Yfiler® 4sp	14 15	11,13 12	13 13	29 18 23	24 16	11 17 12	14	13

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 4sp

ZHV9ZD	Yfiler®									
		4sp	14	11,13	13	29	24	11	14	13
			15	12	13	18	16	17		
					23		12			
<hr/>										
ZWEV9P	PowerPlex® Y									
		4sp	14	11,13	13	29	24	11	14	13
			15	12	13					
<hr/>										

Additional DNA Results

TABLE 3

Locus	WebCode	Item 1	Item 2	Item 3	Item 4e	Item 4sp
D6S1043	EE6MBA	21.3,21.3	11,17	21.3,21.3	11,17,21.3	11,17
	EFMJWH	21.3,21.3	11,17	21.3,21.3	21.3,21.3	11,17
	G7QFM7	21.3,21.3	11,17	21.3,21.3	11,17,21.3	11,17
	RDCXP6	21.3,21.3	11,17	21.3,21.3	21.3,21.3	11,17
	TBGUFU	21.3,21.3	11,17	21.3,21.3	11,17,21.3	11,17
F13A01	HJTBE7	5	3,2,5	5	5	3,2,5
F13B	HJTBE7	8,10	9	8,10	8,10	9
FESFPS	HJTBE7	8,11	12	8,11	8,11	12
LPL	HJTBE7	10	10	10	10	10

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	<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
26J3JJ	Yes	Yes	No	Yes	9FKUAY	Yes	Yes	No	Yes
2FBGQV	Yes	Yes	No	Yes	9KUC8R	Yes	Yes	No	Yes
2GW63V	Yes	Yes	No	Yes	9N2CQD	Yes	Yes	No	Yes
2M7N2N	Yes	Yes	No	Yes	9R2GKK	Yes	Yes	No	Yes
2QACPQ	Yes	Yes	No	Yes	9VVBHL	Yes	Yes	No	Yes
34C37P	Yes	Yes	No	Yes	A6EB9F	Yes	Yes	No	Yes
34PWK4	Yes	Yes	No	Yes	AADPW6	Yes	Yes	No	Yes
393CE3	Yes	Yes	No	Yes	AFCJLQ	Yes	Yes	No	Yes
39HVWE	Yes	Yes	No	Yes	AFFWDT	Yes	Yes	No	Yes
3H9G3C	Yes	Yes	No	Yes	AG72PD	Yes	Yes	No	Yes
47DQWY	Yes	Yes	No	Yes	AL4GGA	Yes	Yes	No	Yes
483WEA	Yes	Yes	No	Yes	AUYJMR	Yes	Yes	No	Yes
4BQ7QW	Yes	Yes	No	Yes	B9UZB4	Yes	Yes	No	Yes
4YU8TY	Yes	Yes	No	Yes	B9VXKZ	Yes	Yes	No	Yes
4ZPPWL	Yes	No	No	Yes	BMWRR3	Yes	Yes	No	Yes
638JUX	Yes	Yes	No	Yes	BN4AQX	Yes	Yes	No	Yes
7FR7VJ	Yes	Yes	No	Yes	BPXZWD	Yes	Yes	No	Yes
7RMDXU	Yes	Yes	No	Yes	BVBD3R	Yes	Yes	No	Yes
8GKCVA	Yes	Yes	No	Yes	BWJWHE	Yes	Yes	No	Yes
8UKD9B	Yes	Yes	No	Yes	BYARQG	Yes	Yes	No	Yes
9237XF	Yes	Yes	No	Yes	C368CA	Yes	Yes	No	Yes
97D4MM	Yes	Yes	No	Yes	C3JGHP	Yes	Yes	No	Yes
9AGR7J	Yes	Yes	No	Yes	C4YQFW	Yes	Yes	No	Yes
9BPAYN	Yes	Yes	No	Yes	C8E9QL	Yes	Yes	No	Yes

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
C999C4	Yes	Yes	No	Yes	GQVYZT	Yes	Yes	No	Yes
C9TTGB	Yes	Yes	No	Yes	GTX47L	Yes	Yes	No	Yes
CEFDPX	Yes	Yes	No	Yes	GUV844	Yes	Yes	No	Yes
D3JN9N	Yes	Yes	No	Yes	GW2UG8	Yes	Yes	No	Yes
DRYHCK	Yes	Yes	No	Yes	GXWBU6	Yes	Yes	No	Yes
DU7Z9U	Yes	Yes	No	Yes	H4E4KU	Yes	Yes	No	Yes
DYWEQA	Yes	Yes	No	Yes	H7KTGC	Yes	Yes	No	Yes
E3GGGF	Yes	Yes	No	Yes	HDJBZU	Yes	Yes	No	Yes
E7ZD77	Yes	Yes	No	Yes	HJTBE7	Yes	Yes	No	Yes
EADJG7	Yes	Yes	No	Yes	HWV2W6	Yes	Inc	No	Yes
EE6MBA	Yes	Yes	No	Yes	J88Q9F	Yes	Yes	No	Yes
EFMJWH	Yes	Yes	No	Yes	KGFG6	Yes	Yes	No	Yes
ELMXJ6	Yes	Yes	No	Yes	KZ9J97	Yes	Yes	No	Yes
ENUFFF	Yes	Yes	No	Yes	L2ZXCA	Yes	Yes	No	Yes
EUMDBX	Yes	Yes	No	Yes	L6XDMJ	Yes	Yes	No	Yes
EZPP23	Yes	Yes	No	Yes	LFYNA9	Yes	Yes	No	Yes
FB2EDD	Yes	Yes	No	Yes	LG8X36	Yes	No	No	Yes
FFW6KA	Yes	Yes	No	Yes	LRR772	Yes	Yes	No	Yes
FHMC4L	Yes	Yes	No	Yes	LT2ER7	Yes	Yes	No	Yes
FJKF24	Yes	Yes	No	Yes	ML366E	Yes	Yes	No	Yes
FMYBJL	Yes	Yes	No	Yes	MVNDKV	Yes	Yes	No	Yes
FNTXXB	Yes	Yes	No	Yes	NA7GN6	Yes	Yes	No	Yes
G7QFM7	Yes	Yes	No	Yes	NBDJQ4	Yes	Yes	No	Yes
G83DWG	Yes	Yes	No	Yes	NJTCP7	Yes	Yes	No	Yes
GAM67X	Yes	Yes	No	Yes	NTG9PL	Yes	Yes	No	Yes
GHKWC8	Yes	Yes	No	Yes	NVJ9PJ	Yes	Yes	No	Yes

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
NYKYAC	Yes	Yes	No	Yes	UFR8R2	Yes	Yes	No	Yes
P2N6B4	Yes	Yes	No	Yes	UNJMG6	Yes	Yes	No	Yes
PC626A	Yes	Yes	No	Yes	UPW8B2	Yes	Yes	No	Yes
PDKB63	Yes	Yes	No	Yes	UY7LAW	Yes	No, only for sperm fraction	No	Yes
PHW9Q4	Yes	Yes	No	Yes	UYMTGY	Yes	Yes	No	Yes
PYXB42	Yes	Yes	No	Yes	V7YFKZ	Yes	Yes	No	Yes
Q7D8R9	Yes	Yes	No	Yes	V94W24	Yes	Yes	No	Yes
QADFWJ	Yes	Yes	No	Yes	VBCC7N	Yes	Yes	No	Yes
QCLPQ2	Yes	Yes	No	Yes	VEBM4A	Yes	Yes	No	Yes
QMHH8	Yes	Yes	No	Yes	VGGVPM	Yes	Yes	No	Yes
QP9ZD8	Yes	Yes	No	Yes	VHVFFC	Yes	Yes	No	Yes
QTNANP	Yes	Yes	No	Yes	VMK236	Yes	Yes	No	Yes
QYB3UX	Yes	Yes,e; No,sp	No	Yes, sp+e	VPG9UW	Yes	Yes	No	Yes
R2BRBW	Yes	No	No	Yes	VPVYFM	Yes	Yes	No	Yes
R42YU9	Yes	Yes	No	Yes	W2F8V	Yes	Yes	No	Yes
RDCXP6	Yes	Yes	No	Yes	VWFXB2	Yes	Yes	No	Yes
RHPV2X	No Interpretations Reported, DNA Analyzed for Database purposes only.				VYF93U	Yes	Yes	No	Yes
RPMLM9	Yes	Yes	No	Yes	W2PF6M	Yes	Yes	No	Yes
TBGUFU	Yes	Yes	No	Yes	W6JG3V	Yes		No	Inc
TCRW3T	Yes	Yes	No	Yes	W8P2QV	Yes	Yes	No	Yes
TDMF7F	Yes	Yes	No	Yes	WCZ3VZ	Yes	Yes	No	Yes
TUCKDA	Yes	Yes	No	Yes	WEMQ8Z	Yes	Yes	No	Yes
TUV79K	Yes	Yes	No	Yes	WJMV8Y	Yes	Yes	No	Yes
TW2RWK	Yes	Yes	No	Yes	WM7MJ3	Yes	Yes	No	Yes
U8EF24	Yes	Yes	No	Yes	WRAZU6	Yes	Yes	No	Yes
UEWQF6	Yes	Yes	No	Yes					

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
WZ9FMJ	Yes	Yes	No	Yes					
X7PJ4K	Yes	Yes	No	Yes					
XADQRN	Yes	Yes	No	Yes					
XKATWH	Yes	Yes	No	Yes					
Y4D48Y	Yes	Yes	No	Yes					
YHY9N8	Yes	Yes	No	Yes					
YK8JF6	Yes	Yes	No	Yes					
YLFLH4	Yes	Yes	No	Yes					
YVMH2Z	Yes	Yes	No	Yes					
YZJYKL	Yes	Yes	No	Yes					
Z69WN3	Yes	Yes	No	Yes					
Z98CYC	Yes	Yes	No	Yes					
ZBVLBX	Yes	Yes	No	Yes					
ZF8JWZ	Yes	Yes	No	Yes					
ZHV9ZD	Yes	Yes	No	Yes					
ZN6AFP	Yes	No	No	Yes					
ZWETHL	Yes	Yes	No	Yes					
ZWEV9P	No Interpretations Reported, DNA Analyzed for Database purposes only.								

Response Summary			Participants reporting DNA results: 169		
<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)	
		Item 3	Item 4	Item 3	Item 4
Responses	Yes	167	160	0	166
	No	0	5	167	0
	Inc	0	1	0	1

Participants not reporting Interpretation results: 2

Additional Comments

TABLE 5

WebCode	Additional Comments
4YU8TY	NR = No Results
638JUX	Item 1 was not analyzed for Y-STR DNA. Item 3 was analyzed for Y-STR DNA using the Yfiler Amplification Kit; however, no Y-STR DNA profile was obtained for item 3.
7RMDXU	Female references not analyzed with Y filer; NR = no results
9237XF	The minor component obtained from the epi fraction of item 4 was consistent with originating from the victim, which would not be unexpected given the sample is described as taken from her bed sheet.
97D4MM	CTS Item #2-Known blood reference from suspect, displayed low peaks after amplification with 3 different amps. Low peaks even with > 1ng of DNA template used for amplification. Extra Taq and BSA used on 2 amps, however no indication of inhibition in Quant IPC.
9N2CQD	The weak 34 allele detected at D21S11 in both Item 3 and Item 4e is likely elevated stutter. It is being reported because it exceeds the expected stutter percentage that was determined during internal validation of the Identifiler Plus kit.
9R2GKK	No Y-STR analysis performed on Items 1 and the epithelial fraction of Item 4. Just make the unknowns (questioned) samples both blood/semen or just give the lab one questioned sample. Correctly typing both the victim and suspect should prove the lab is proficient with blood samples.
9VWBHL	Spermatozoa were detected by microscopic examination of item 4.
AFFWDT	NR=No results
AL4GGA	The 34 allele at D21S11 is likely stutter. It is above the percentage of stutter that was observed in our validation studies for the 35 allele at the D21S11 locus in the Identifiler Plus kit, and it is more than 2 standard deviations above what we observed for stutter at that allele at that locus, however, there is no indication of a third contributor to this mixture. The asterisk (*) indicates a DNA type that was detected below the stochastic threshold. The brackets ([]) indicate a DNA type that is possibly from a minor contributor.
BVBD3R	Y-STR analysis was not performed on samples 1 and 3 because no male DNA was detected using Quantifiler Duo.
E3GGGF	Spermatozoa observed for Item 4.
ENUFFF	a) Chelex extraction method and Automate Express Forensic DNA Extraction System with Prepfilier Express kits were used to extract DNA from Item 1,2,3 and 4. b) DNA quantitation was carried out using the Quantifiler Human DNA Quantification kit with Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 system. c) Amplification of STR (Short Tandem Repeat) genetic loci was carried out using the AmpFISTR Identifiler Plus PCR Amplification kit. d) Amplification of Y-STR (Short Tandem Repeat) genetic loci was carried out using the AmpFISTR Y-Filer PCR Amplification kit. e) Capillary electrophoresis was carried out using the Applied Biosystems 3130xl Genetic Analyzer with GeneMapper ID Software. f) Reagent blank, positive control and negative control were carried out through out the testing.
FHMC4L	NR= no results
FJKF24	Weak D21S11 34 allele detected in samples 1 and 3. This is likely stutter.
FMYBJL	Y-STR analysis was not performed on samples 1 and 3 because no male DNA was detected using Quantifiler Duo.
GTX47L	NR = NO RESULTS
GUV844	SPERM FRACTION (ITEM 4) MATCHES DNA OBTAINED FROM SUSPECT. ASSUMING TWO CONTRIBUTORS, AND THAT THE SUSPECT IS ONE OF TWO CONTRIBUTORS TO THE NON-SPERM

TABLE 5

WebCode	Additional Comments
	FRACTION OF ITEM 4, THE VICTIM IS INCLUDED AS A POSSIBLE MAJOR CONTRIBUTOR TO THE DEDUCED PROFILE FOREIGN TO THE SUSPECT. []=likely minor contributor DNA type
GW2UG8	Analysis of the mixed DNA profile obtained from the epithelial fraction of item 4 indicted[sic] that two individuals, a male and a female, had contributed DNA to this sample. The male DNA profile where results were determined, corresponded to the male DNA profile obtained from the analysis of the sperm fraction. For item 3, no male DNA was detected using male specific quantitation or at analysis using Identifiler therefore this extract was not analysed using PowerPlex Y.
HWV2W6	Taking into consideration that our laboratory does not routinely perform differential extractions, I cannot conclude that the victim could/ can not be linked to item 4. The extra alleles (other than the alleles belonging to suspect) in the mixture obtained from item 4 could possibly be those of the victim, that cannot be concluded at this stage.
L6XDMJ	NR = No Results obtained for the locus
LFYNA9	NR=no results
LT2ER7	1. Chelex extraction was used to extract DNA 2. Real-Time PCR using the ABI Quantifiler Human DNA Quantification Kit was used to quantify extracted DNA 3. AmpFISTR Identifiler Plus and Yfiler PCR Kit was used for amplification. 4. Reagent blank,positive control and negative control were carried out along with the analysis.
ML366E	Y chromosome testing was not conducted on Items 1 and 3 due to no male DNA detected using Quant Duo.
NJTCP7	Spermatozoa were detected upon microscopic examination in sample 4 male fraction.
PHW9Q4	1) Extraction for Item 1 to Item 4 were carried out using Chelex extraction method. 2) Quantitation was carried out using the Quantifiler Human DNA quantification kit on the 7500 AB Real Time PCR. 2) Amplification was carried out using Identifiler Plus DNA amplification kit. 3) Electrophoresis was carried out using the 3130xl Genetic Analyser.
QCLPQ2	Spermatozoa were observed by microscopic examination of the sperm cell fraction of item 4.
R42YU9	NR = NO RESULTS
TW2RWK	YSTR analysis was performed on Item 3 as a very low level male quant was detected;however no YSTR typing results were obtained for this item. NR = No results.
UPW8B2	Spermatozoa were detected by microscopic examination of item 4.
UYMTGY	In the sperm cell fraction, spermatozoa were observed by microscopic examination.
V7YFKZ	1)Item 1, Item 2, Item 3 and Item 4 were extracted by using chelex extraction. 2)DNA quantitation was carried out usind Quantifiler Human DNA Quantitation Kit on Real-Time PCR. 3)The samples were amplified using AmpFISTR Identifiler Plus Kit. 4)Capillary Electroforesis was carried out using the Applied Biosystems 3130xl Genetic Analyzer with GeneMapper ID Software. 5)Reagent blank, positive control and negative control were carried out throughout the analysis. [sic]
VBCC7N	A POSSIBLE GENETIC ARTIFACT (34 AT D21S1 1) WAS OBSERVED IN THREE SAMPLES: 3, 4_NS, AND 1.
VMK236	1.The victim (Item 1) is not excluded as the source of the blood stain in the suspect's shirt (Item 3). 2. The Suspect (Item 2) is not excluded as the source of the sperm cells recovered from the victims bed sheet (Item 4). 3. It is noted that the genetic profile recovered from the blood and semen mixture in the victim's bed sheet (Item 4), has more than two alleles for several of the STR systems analyzed, indicating the presence of cells from more than one individual. The genetic profiles of the victim and the suspect are included in the mixture. Therefore the victim (Item 1) and the suspect (Item 2) are not excluded as the source of the blood and semen mixture in the victim's bed sheet (Item 4).

TABLE 5

WebCode	Additional Comments
VPVYFM	DNA result for Item 4 is a mixture profile. The major contributor is not differentiable from suspect's profile (Item 2). The victim could be the contributor of the weaker alleles. Item 1 could be the minor contributor of the mixture (allele 9.3 of TH01 is hidden/not automatically annotated because of the major allele 10).
VWFXB2	Spermatozoa were observed in the sperm cell fraction of item 4.
W2PF6M	During Identifiler Plus analysis of the "e" fraction for Item 4, elevated stutter was detected at D21S11 and included in the table section, [34] allele 10.89% of the parent allele. During Yfiler analysis of the "e" fraction for Item 4, elevated stutter was detected at DYS390 and included in the table section, [23] allele 11.54% of the parent allele.
W8P2QV	Blood from item 3 refers to the suspect. Sperm from item 4 refers to the suspect. Blood from item 4 mixed between the suspect and the victim.
WEMQ8Z	In the Identifiler analysis for the sample 4e some of the brackets in the mixture were entered manually because the system doesn't provide more space.
WJMV8Y	Spermatozoa were observed upon examination in sample 4 male fraction.
WM7MJ3	Item 4 was extracted with a differential extraction procedure. All samples were amplified for STR only using PowerPlex 16 HS. All samples were electrophoresed on the 3500xl Genetic Analyzer and analyzed using GeneMapper ID-X.
WRAZU6	NR=No Results
YHY9N8	NR = No Results. No Y-STR profile was obtained for Item 3. Y-STR's were not run for Item 1 so results were left blank.
YLFLH4	NR = No Results
YZJYKL	The minor '34' allele at D21S11 is a possible stutter peak and is included on the data sheets for Items 3 and 4 per lab policy.
ZHV9ZD	No male DNA detected for Item 3 using Plexor HY.

Appendix: Data Sheet

Collaborative Testing Services ~ Forensic Testing Program

Test No. 14-584: DNA-Semen

DATA MUST BE RECEIVED BY September 2, 2014 TO BE INCLUDED IN THE REPORT

Participant Code:

WebCode:

Accreditation Release Statement

CTS submits external proficiency test data directly to ASCLD/LAB and ANSI-ASQ NAB/FQS. 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 and/or ANSI-ASQ NAB/FQS. (Accreditation Release section on the last page must be completed and submitted.)
- This participant's data is NOT intended for submission to ASCLD/LAB or ANSI-ASQ NAB/FQS.

Scenario:

Police are investigating the sexual assault of a female college student that occurred in her dorm room. Screening has been done on the samples with the following results: Item 3 (suspect's shirt) is positive for blood only and Item 4 (victim's bed sheet) 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 victim and the male suspect.

Items Submitted (Sample Pack S4):

Item 1: Known blood from the Victim.

Item 2: Known blood from the Suspect.

Item 3: Questioned blood stain from the suspect's shirt. (light yellow material)

Item 4: Questioned blood and semen mixture from the victim's bed sheet. (blue patterned material)

****Please note the following Significant Changes to the Data Sheet****

Due to the growing use of GlobalFiler™, Powerplex® Fusion and Powerplex® Y23, the Data Sheet has been updated to include the loci represented by these new amplification kits. In addition, the data sheet was redesigned to gather all the information for a single item on one page, including capturing the amplification kit used for the analysis for each Item. As always, the paper version of our data sheet displays loci in alpha-numeric order. To re-order the loci to match your amplification kit, please utilize our online data entry at www.CTS-Portal.com.

Online Data Entry

Visit www.cts-portal.com to enter and/or upload your proficiency test results online. If you have any questions please do not hesitate to contact CTS.

Please return all pages of this data sheet.

Page 1 of 8

Part I: DNA ANALYSIS

DNA Analysis Instructions:

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

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

Example	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820	
A	e	10,11	15,16	8	12,13	7	8
	sp	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****

As a reminder, the data sheet has been updated to include loci from the following amplification kits: GlobalFiler™, Powerplex® Fusion and Powerplex® Y23. If a locus is not listed on one of the following four 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 I (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 any kit specific information in the blank provided (i.e. 16, Plus, Direct, 16 HS, etc.).

<input type="checkbox"/> COfiler®/Profiler Plus® _____	<input type="checkbox"/> PowerPlex® _____
<input type="checkbox"/> Identifiler® _____	<input type="checkbox"/> Other _____

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	Penta D	Penta E	SE33	TH01	TPOX	vWA
1	<input type="checkbox"/>	<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 any kit specific information in the blank provided (i.e. Plus, 23, etc.).

<input type="checkbox"/> Yfiler® _____	<input type="checkbox"/> PowerPlex® Y _____
<input type="checkbox"/> Other _____	

ITEM	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
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"/>

ITEM	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
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"/>

ITEM	DYS549	DYS570	DYS576	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"/>

Please return all pages of this data sheet.

Part I (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 any kit specific information in the blank provided (i.e. 16, Plus, Direct, 16 HS, etc.).

COfiler®/Profiler Plus® _____ PowerPlex® _____

Identifiler® _____ Other _____

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ITEM	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ITEM	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ITEM	Penta D	Penta E	SE33	TH01	TPOX	vWA
2	<input type="checkbox"/>	<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 any kit specific information in the blank provided (i.e. Plus, 23, etc.).

Yfiler® _____ PowerPlex® Y _____

Other _____

ITEM	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
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"/>
ITEM	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
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"/>
ITEM	DYS549	DYS570	DYS576	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"/>	

Please return all pages of this data sheet.

Part I (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 any kit specific information in the blank provided (i.e. 16, Plus, Direct, 16 HS, etc.).

<input type="checkbox"/> COfiler®/Profiler Plus® _____	<input type="checkbox"/> PowerPlex® _____
<input type="checkbox"/> Identifiler® _____	<input type="checkbox"/> Other _____

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	Penta D	Penta E	SE33	TH01	TPOX	vWA
3	<input type="checkbox"/>	<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 any kit specific information in the blank provided (i.e. Plus, 23, etc.).

<input type="checkbox"/> Yfiler® _____	<input type="checkbox"/> PowerPlex® Y _____
<input type="checkbox"/> Other _____	

ITEM	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
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"/>

ITEM	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
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"/>

ITEM	DYS549	DYS570	DYS576	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"/>

Please return all pages of this data sheet.

Part I (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 any kit specific information in the blank provided (i.e. 16, Plus, Direct, 16 HS, etc.).

<input type="checkbox"/> COfiler®/Profiler Plus® _____	<input type="checkbox"/> PowerPlex® _____
<input type="checkbox"/> Identifiler® _____	<input type="checkbox"/> Other _____

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

ITEM	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

ITEM	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

ITEM	Penta D	Penta E	SE33	TH01	TPOX	vWA
4	<input type="text"/>	<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 any kit specific information in the blank provided (i.e. Plus, 23, etc.).

<input type="checkbox"/> Yfiler® _____	<input type="checkbox"/> PowerPlex® Y _____
<input type="checkbox"/> Other _____	

ITEM	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
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"/>

ITEM	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
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"/>

ITEM	DYS549	DYS570	DYS576	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"/>

Please return all pages of this data sheet.

Part II: DNA INTERPRETATION

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

<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>			
	<u>Item 3</u>	<u>Item 4</u>		<u>Item 3</u>	<u>Item 4</u>
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"/>

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

Part III: 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.

<p>Return Instructions: Data must be received via online data entry, fax (please include a cover sheet), or mail by September 02, 2014 to be included in the report.</p> <p>QUESTION? TEL: +1-571-434-1925 (8 am - 4:30 pm EST) EMAIL: forensics@cts-interlab.com www.ctsforensics.com</p>	<p>Participant Code:</p> <p>ONLINE DATA ENTRY: www.cts-portal.com FAX: +1-571-434-1937 or Toll-Free: 1-866-FAX-2CTS (329-2287) MAIL: Collaborative Testing Services, Inc. P.O. Box 650820 Sterling, VA 20165-0820 USA</p>
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Please return all pages of this data sheet.

RELEASE OF DATA TO ACCREDITATION BODIES

The following Accreditation Releases will apply only to:

Participant Code:

WebCode:

for Test No. **14-584: DNA-Semen**

This release page must be completed and received by **September 2, 2014** to have this participant's submitted data included in the reports forwarded to the respective Accreditation Bodies.

ASCLD/LAB RELEASE

If your lab has been accredited by ASCLD/LAB and you are submitting this data as part of their external proficiency test requirements, have the laboratory's designated individual complete the following.

The information below must be completed in its entirety for the results to be submitted to ASCLD/LAB.

ASCLD/LAB Legacy Certificate No. _____ ASCLD/LAB International Certificate No. _____

Signature _____ Date _____

Laboratory Name _____

Location (City/State) _____

ANSI-ASQ NAB/FQS RELEASE

If your laboratory maintains its accreditation through ANSI-ASQ NAB/FQS, please complete the following form in its entirety to have your results forwarded.

ANSI-ASQ NAB/FQS Certificate No. _____

Signature and Title _____ Date _____

Laboratory Name _____

Location (City/State) _____

Accreditation Release

Return Instructions

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

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

Please return all pages of this data sheet.

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