



## **DNA - Semen Test No. 10-582 Summary Report**

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This proficiency test was sent to 199 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 177 participants (89% response rate) and are compiled into the following tables:

	<u>Page</u>
<a href="#"><u>Manufacturer's Information</u></a>	<a href="#"><u>2</u></a>
<a href="#"><u>Summary Comments</u></a>	<a href="#"><u>4</u></a>
<a href="#"><u>Table 1: Amplification Kit(s) &amp; STR Results - Part I</u></a>	<a href="#"><u>5</u></a>
<a href="#"><u>Table 2: STR Results - Part II</u></a>	<a href="#"><u>26</u></a>
<a href="#"><u>Table 3: STR Results - Part III</u></a>	<a href="#"><u>45</u></a>
<a href="#"><u>Table 4: YSTR Amplification Kit(s) &amp; YSTR Results - Part I</u></a>	<a href="#"><u>58</u></a>
<a href="#"><u>Table 5: YSTR Results - Part II</u></a>	<a href="#"><u>64</u></a>
<a href="#"><u>Table 6: Additional DNA Results</u></a>	<a href="#"><u>69</u></a>
<a href="#"><u>Table 7: DNA Interpretations</u></a>	<a href="#"><u>70</u></a>
<a href="#"><u>Table 8: Additional Comments</u></a>	<a href="#"><u>74</u></a>
<a href="#"><u>Appendix: Data Sheet</u></a>	<a href="#"><u>78</u></a>

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

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

# Manufacturer's Information

Each sample pack consisted of two known bloodstains on FTA Genecards (Items 1 & 2), and two questioned stains one on clean, black polka dotted pink material (Item 3) and one on clean, tan material (Item 4). The stains in Items 1, 2 and 4 were prepared from human whole blood which was drawn into citric acid preservative bloodbank bags. The stain in Item 3 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 3 substrates. Items 1 and 4 were blood collected from one female donor and Item 2 was blood collected from one male donor. Item 3 was a mixture of blood from the Item 1 female donor and semen from the Item 2 male donor. Stains from different sources were prepared on separate days and were packaged once they were thoroughly dried.

## *Sample Preparation Schedule*

<u>Item</u>	<u>Sample Collected</u>	<u>Prepared</u>	<u>Packaged</u>	<u>Volume</u>
1	January 5, 2010	January 13, 2010	January 14, 2010	75 µl
2	January 14, 2010	January 21, 2010	January 22, 2010	75 µl
3	Blood: January 5, 2010; Semen: January 14-15, 2010	January 20, 2010	January 21, 2010	50 µl
4	January 5, 2010	January 13, 2010	January 14, 2010	50 µl

The blood was refrigerated before being spotted. Completed sample sets were stored at -20°C until shipment on March 1, 2010, following receipt of predistribution results.

## *Amelogenin and STR Results*

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

<u>Item</u>	<u>D3S1358</u>	<u>D5S818</u>	<u>D7S820</u>	<u>D8S1179</u>	<u>D13S317</u>	<u>D16S539</u>	<u>D18S51</u>	<u>D21S11</u>
1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
3-Blood	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
3-Semen	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
<u>Item</u>	<u>Amel</u>	<u>CSF1PO</u>	<u>FGA</u>	<u>TH01</u>	<u>TPOX</u>	<u>vWA</u>	<u>PentaD</u>	<u>PentaE</u>
1	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
2	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
3-Blood	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
3-Semen	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
4	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
<u>Item</u>	<u>D2S1338</u>	<u>D19S433</u>						
1	16,20	12,14						
2	17,26	12,12						
3-Blood	16,20	12,14						
3-Semen	17,26	12,12						
4	16,20	12,14						

## Manufacturer's Information, continued

### YSTR Results

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

<u>Item</u>	<u>DYS19</u>	<u>DYS385</u>	<u>DYS389-I</u>	<u>DYS389-II</u>	<u>DYS390</u>	<u>DYS391</u>
2	15	13,14	13	30	22	11
3-Semen	15	13,14	13	30	22	11

  

<u>Item</u>	<u>DYS392</u>	<u>DYS393</u>	<u>DYS437</u>	<u>DYS438</u>	<u>DYS439</u>	<u>DYS448</u>	<u>DYS456</u>	<u>DYS458</u>	<u>DYS635</u>	<u>YGATAH4</u>
2	11	13	16	10	11	22	15	18	23	13
3-Semen	11	13	16	10	11	22	15	18	23	13

## **Summary Comments**

The DNA-Semen test is part of the DNA Sample Specific Series in which participants are advised of the body fluid(s) that make up the questioned stains. The test is designed to allow participants to assess their proficiency in the analysis of dried stains containing at least one sample with semen on which 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 4 were blood collected from one female donor, Item 2 was blood collected from a male donor and Item 3 was a mixture of blood collected from the Item 1 female donor and semen collected from the Item 2 male donor that was mixed prior to spotting on the Item 3 substrate. (See Manufacturer's Information for preparation details)

Of the 177 responding participants, 147 reported DNA interpretations. All 147 participants included the victim (Item 1) as a possible contributor to both the Item 3 mixture and the Item 4 stain. In addition, all of these included the suspect as a possible contributor to the Item 3 mixture and all but two excluded him as possible contributor to the Item 4 stain with one of those participants leaving this result blank. Of the thirty remaining participants who did not report DNA interpretations the majority stated that they analyzed the samples for database purposes only.

Eight participants reported allelic results that were inconsistent with the consensus/predistribution results. Of these, Four participants were missing alleles at one or more loci. Three participants reported inconsistent alleles at a locus and one participant reported alleles in the YSTR results for Item 4. Additionally, there were 11 participants that reported "Nd", "\*\*" or other laboratory specific notations at one or more loci.

# Amplification Kit & STR Results - Part I

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
2UBNUF	Identifiler®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
2VJ6JY	COfiler® and Profiler Plus®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	11,12,13	9,11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	4	15,18	11,12	11	15	12,13	11,12	12,13	28,30
2W9GBR	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,18 (16)	11,12 (13)	11,11	15,15 (10,12)	12,13 (11)	11,12 (9)	12,13 (14)	28,30 (33.2)
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
2XMWTY	COfiler® and Profiler Plus®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16,*	11,13	11	10,12	11,12	9	13,14	30,33.2
	4	15,18	11,12	11	15	12,13	11,12	12,13	28,30
39KW64	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
39LQLN	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11,11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
3H3KRP	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,18 (16)	11,12 (13)	11,11	15,15 (10,12)	12,13 (11)	11,12 (9)	12,13 (14)	28,30 (33.2)
	3sp	15,16	11,13 (12)	11,11	10,12*	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
3X6XJ9	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
4CEB4D	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
4JDZKG									
	1	15,18	11,12	11,11	15,15	12,13		12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12		13,14	30,33.2
	3	15,16	11,13	11,11	10,12	11,12		13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13		12,13	28,30
4JGJA6	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
4PPTVF	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	4	15,18	11,12	11	15	12,13	11,12	12,13	28,30
4UUNEF	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
6HJEQQ	PowerPlex 16Bio								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
6KQTXW	COfiler® and Profiler Plus® Minifiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15,15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
6PYCYA	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
6UVW6E									
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
6VMW3P COfiler® and Profiler Plus®									
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
6WL3K6 Identifiler®									
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
76R89F									
	1	15,18	11,12	11	15	12,13		12,13	28,30
	2	15,16	11,13	11	10,12	11,12		13,14	30,33.2
	3	15,16	11,13	11	10,12	11,12		13,14	30,33.2
	4	15,18	11,12	11	15	12,13		12,13	28,30
77PCRU Identifiler®									
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
7AK4X7 Identifiler®									
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
7AMXEQ COfiler® and Profiler Plus® Identifiler®									
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11,11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
7JTXUK Identifiler®									
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	12,13	9,11,12	12,13	28,30
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
7PD3JE COfiler® and Profiler Plus®									
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15,15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
7W3E4B	Identifiler®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
83HLUE	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15,15	11,12,13	9,11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
899V4C	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
8D3P4Y	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
8F369F	PowerPlex®16								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
8UN927	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
962VMC	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
9NFCQ6	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
9UJ7TD	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
9UYUMD	Identifiler® PowerPlex®16								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,13	9,11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,[12],13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
A44BNH	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
A7U4BL	Identifiler® MiniFiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,[12],13	11	10,12	11,12	9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
A8L48W	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15,15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
AFXDGB	Identifiler® Minifiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
B3RHXA	Identifiler®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
B7NBMX	PowerPlex®16								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	4	15,18	11,12	11	15	12,13	11,12	12,13	28,30
BFGF7Y	Identifiler® Minifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11,11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
BL3G34	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
BL4BJN	Identifiler® PowerPlex®16								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,13	9,11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
BQ9CFC	Identifiler® Yfiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,[16]	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],[18]	11,[12],[13]	11	[10],[12],15	[11],12,[13]	9,11,12	12,13,[14]	[28],30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
CK7FGC	Identifiler®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
CLT93E	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
CTUGQU	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15,15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
CTXYUK	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
D64CM6	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
DFNHLU	Identifiler®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
DHXN24	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,[14]	30,33.2
	3e	15,18	11,[12],[13]	11	[10],[12],15	[11],12,13	9,11,12	12,13,[14]	28,30
	3sp	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	4	15,18	11,12	11	15	12,13	11,12	12,13	28,30
DJMUHU	Identifiler®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
DJPNYF	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,[13]	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
DP779G	Identifiler® PowerPlex®16								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	3	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	4	15,18	11,12	11	15	12,13	11,12	12,13	28,30
DTR4NK	Identifiler® Minifiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
DUNLKU									
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	15	11,12,13	9,11,12	12,13	28,30
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
E9YMUP									
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,[18]	11,[12],13	11,11	10,12,[15]	11,12,[13]	9,[11],[12]	[12],13,14	[28],30,33.2
	3sp	15,16,[18]	11,13	11,11	10,12,[15]	11,12,Nd*	9,[11],[12]	13,14	[28],30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
EGCJWB	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15,15	[11],12,13	9,11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
EHP4PK	Identifiler® Minifiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
EHRX77	COfiler® and Profiler Plus®								
	1	15:18	11:12	11:11	15:15	12:13		12:13	28:30
	2	15:16	11:13	11:11	10:12	11:12		13:14	30:33.2
	3e	15,16,18	11,12,13	11,11	10,12,15	11,12,13		12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12		13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13		12,13	28,30

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
EQ2B3F	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,13	9,11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
EWAHRK	Identifiler® Minifiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
EYDG3D	Identifiler® Minifiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
EZ6GZN	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11,11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
FG7NQA	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15,15	[11],12,13	9,11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
FPNUP2	Identifiler® PowerPlex® 16 Sefiler								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	[11],12,13	9,11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	4	15,18	11,12	11	15	12,13	11,12	12,13	28,30
FRUEEM	SGM Plus								
	1	15,18			15,15		11,12	12,13	28,30
	2	15,16			10,12		9,9	13,14	30,33.2
	3	15,16,18			10,[11],12,15		9,11,12	12,13,14	28,30,33.2
	4	15,18			15,15		11,12	12,13	28,30
FTJQ7F	Identifiler®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	4	15,18	11,12	11	15	12,13	11,12	12,13	28,30

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
FYR3EZ	Identifiler®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
G9Y2JV	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
GA32DZ	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	4	15,18	11,12	11	15	12,13	11,12	12,13	28,30
GQT28K	Identifiler®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	4	15,18	11,12	11	15	12,13	11,12	12,13	28,30
GQWJBB	Identifiler® Minifiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],[18]	11,[12],[13]	11	[10],[12],15	[11],12,[13]	[9],11,12	[12],13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
GUV8B	Identifiler® Minifiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
HPUAVY	Identifiler®								
	1	15,18	11,[12]	11,11	15,15	12,[13]	11,12	12,13	[28],30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	[11],12,13	[9],11,[12]	12,13	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
HUBC9V	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11,11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
JBBN9K	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
JBDHP6	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,18 (16)	11,12 (13)	11,11	15,15 (10,12)	12,13 (11)	9;11;12	12,13 (14)	28,30 (33.2)
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
JC4N7V	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
JEB4D2	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
JKXUYW	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
JTX6E2	Identifiler® Minifiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
JUP6BD	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
K2G3D7	COfiler® and Profiler Plus® Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11,11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
K2KM4U	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
K3F9WK	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	[11],12,13	9,11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
KGV9MJ									
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	10,12,15	11,12,13	9,11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,[12],13	11	10,12	11,12	9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
KJY47M	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3F1	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3F2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
L4MRET	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15,15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
L7U3CH	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
LDUDRN	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11,11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
LNQPE2	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15;16;18	11,12 (13)	11,11	15,15 (10,12)	11;12;13	9;11;12	12,13 (14)	28,30 (33.2)
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
LPPVXG	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
LTG4Y2	Identifiler® PowerPlex®16 SeFILER Plus								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	[11],12,13	9,11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	4	15,18	11,12	11	15	12,13	11,12	12,13	28,30
M2ZF3U	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11,11	10,12,15	11,12,13	9,11	13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
M6DDKP	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
M6WCJ9	Identifiler® Minifiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	[11],12,13	9,11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
MAMQ4A	Identifiler® MiniFiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11,11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
MAQ99Z	Identifiler®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
MFTELG	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
MKBDFY	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
MLJPX2	Identifiler®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
MMBQVC	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
MMEBQR	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
MV9FKT	Identifiler®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
MWZGH4	PowerPlex®16 PowerPlex 16BIO								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11,11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
MXXMZJ	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
N27JW6	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,18 (16)	11,12 (13)	11,11	15,15 (10,12)	12,13 (11)	9;11;12	12,13 (14)	28;30;33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
N2R82K	PowerPlex®16								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	4	15,18	11,12	11	15	12,13	11,12	12,13	28,30
N323Y7	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,13	9,11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
NCNAL2	Identifiler® Minifiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11	10,12,15	11,12	9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
NEFAJD	Identifiler®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	3e	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	3sp	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	4	15,18	11,12	11	15	12,13	11,12	12,13	28,30
NFVA33	COfiler® and Profiler Plus® Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
NJ8ECG	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
NNZJ4Z	Identifiler® MiniFiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
NR3EVF	Identifiler® Minifiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
NR4ACZ	COfiler® and Profiler Plus®								
	1	15,18	11,12	11	15	12,13		12,13	28,30
	2	15,16	11,13	11	10,12	11,12		13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13		12,13,14	28,30,33.2
	3sp	15,16	11,13	11	10,12	11,12		13,14	30,33.2
	4	15,18	11,12	11	15	12,13		12,13	28,30
NV2TFK	Identifiler®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
PETYLP	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
PEVT4A	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,[13]	9,11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
PMLCHJ	PowerPlex®16								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	3e	15,18	11,12	11	15	[11],12,13	[9],11,12	12,13	28,30,[33.2]
	3sp	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	4	15,18	11,12	11	15	12,13	11,12	12,13	28,30
PV3MX6	PowerPlex 16 Bio								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
Q87NPZ	Identifiler® Minifiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
Q8PGHX	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
Q9YNMB	PowerPlex®16								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	4	15,18	11,12	11	15	12,13	11,12	12,13	28,30
QDC3UQ	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
QH9TZ2	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,13	9,11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
QJ7YJG	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	11,12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
QM3RBQ									
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
QT8MDY	Identifiler® Minifiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11	10,12	11,12,13	9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
QVYMAA	Identifiler® PowerPlex®16 Sinofiler								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	3	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	4	15,18	11,12	11	15	12,13	11,12	12,13	28,30
QYXWMW	Identifiler®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
R4FV4V	PowerPlex®16								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RB3GFN	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
RGWD7Z	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
RJDXQV	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,18	11,12	11,11	15,15 (10,12)	12,13	11,12 (9)	12,13*	28,30
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
RKC4AA	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
RL448L	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15,15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
RQ2GBX	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
RQFUQU	Identifiler®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	4	15,18	11,12	11	15	12,13	11,12	12,13	28,30
RUR6G4	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
RWLP AU	PowerPlex®16								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3	NA	NA	NA	NA	NA	NA	NA	NA
	4	NA	NA	NA	NA	NA	NA	NA	NA
RXHW48	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
RXZ2JL	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
T7AU72	Identifiler® Minifiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
T82V3C	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3epi	[15],[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,13	9,11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
TMBNNU	PowerPlex®16								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TNNB9U	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
TPLGR9	Identifiler®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,[14]	28,30,33.2
	3sp	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	4	15,18	11,12	11	15	12,13	11,12	12,13	28,30
TXTHPE	Identifiler®								
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
TZKECM	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
U4UW6N	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11	
UEFZCN	Identifiler® Power Plex HS									
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30	
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2	
	3e	15,[16],18	[10],11,12,[13]	[9],11	[10],[11],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[32.2],[33.2]	
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2	
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30	
UKLWXA	Identifiler®									
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30	
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2	
	3e	15,16,18	11,12,13	11,11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2	
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2	
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30	
UZEJ7M	Identifiler®									
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30	
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2	
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2	
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2	
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30	
VNYWVZ	COfiler® and Profiler Plus® PowerPlex®16									
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30	
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2	
VPW3EF	Identifiler®									
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30	
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2	
VXNH2Y	Power Plex 16 BIO									
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30	
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2	
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,13	9,11,12	12,13,[14]	28,30,[33.2]	
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2	
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30	
W8RWHQ	COfiler® and Profiler Plus® PowerPlex®16									
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30	
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2	
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	[11],12,13	[9],11,12	12,13	28,30	
	3sp	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2	
	4	15,18	11,12	11	15	12,13	11,12	12,13	28,30	
WUK6YQ	Identifiler®									
	1	15,18	11,12	11	15	12,13	11,12	12,13	28,30	
	2	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2	
WVC6W3	PowerPlex®16									
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30	
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2	
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]	
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2	
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30	

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
WWABFG	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
WWPYAG	COfiler® and Profiler Plus®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
X3WMP	PowerPlex®16								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,13	9,11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
Y9VP9U	Identifiler® (and MiniFiler)								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
Y9XA6B	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11,11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
YFGDCD	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3ef	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sf	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
YK748M	SGM+, Profiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16,[18]	11,13	11,11	10,12,[15]	11,12,[13]	9,[11],[12]	13,14	[28],30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
YUGEPE	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11,11	[10],[12],15,15	[11],12,13	9,11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
YUTXNQ	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,18 (16)	11,12 (13)	11,11	15,15 (10,12)	12,13 (11)	11,12 (9)	12,13 (14)	28,30 (33.2)
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
YVR476	Identifiler® Minifiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
YY644W	Identifiler® MiniFiler								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
Z4ELVX	PowerPlex®16								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11,11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,12,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
Z6DRED	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,[16],18	11,12,[13]	11	[10],[12],15	[11],12,13	[9],11,12	12,13,[14]	28,30,[33.2]
	3sp	15,16	11,13	11	10,12	11,12	9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
Z8HC6X									
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3e	15,16,18	11,12,13	11	10,12,15	11,12,13	9,11,12	12,13,14	28,30,33.2
	3sp	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
ZZEH2P	Identifiler®								
	1	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30
	2	15,16	11,13	11,11	10,12	11,12	9,9	13,14	30,33.2
	3	15,16,[18]	11,13	11,11	10,12,[15]	11,12,[13]	9,9,[11],[12]	13,14	[28],30,33.2
	4	15,18	11,12	11,11	15,15	12,13	11,12	12,13	28,30

Results in brackets "[ ]" indicate minor or weaker alleles

\*See Additional Comments (Table 8)

# STR Results - Part II

## TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
2UBNUF	1	X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		
2VJ6JY	1	X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18		
	4	X	12	20,22	7,9.3	9,12	14,16		
2W9GBR	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,X (Y)	12,12 (9,10)	20,22 (21)	7,9.3 (8)	9,12 (8,11)	14,16 (18)		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
2XMWTY	1	X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18		
	4	X	12	20,22	7,9.3	9,12	14,16		
39KW64	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
39LQLN	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
3H3KRP	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,X (Y)	12,12 (9,10)	20,22 (21)	7,9.3 (8)	9,12 (8,11)	14,16 (18)		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18*		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
3X6XJ9	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,X	12,12	20,22	7,9.3	9,12	14,16		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
4CEB4D	1	X,X	12,12	20,22	7,9.3	9,12	14,16	N/A	N/A
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	N/A	N/A
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18	N/A	N/A
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	N/A	N/A
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	N/A	N/A

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
4JDZKG	1	X,X		20,22			14,16		
	2	X,Y		21,22			18,18		
	3	X,Y		21,22			18,18		
	4	X,X		20,22			14,16		
4JGJA6	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
4PPTVF	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18		
	4	X,X	12	20,22	7,9.3	9,12	14,16		
4UUNEF	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
6HJEQQ	1	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]	9,10	7,[12],[13],14
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
6KQTXW	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,X,[Y]	[9],[10],12,12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
6PYCYA	1	X,X	12,12	20,22	7,9.3	9,12	14,16	N/A	N/A
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	N/A	N/A
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18	N/A	N/A
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	N/A	N/A
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	N/A	N/A
6UVW6E	1	X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		
6VMW3P	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
6WL3K6	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
76R89F	1	X		20,22			14,16		
	2	X,Y		21,22			18		
	3	X,Y		21,22			18		
	4	X		20,22			14,16		
77PCRU	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
7AK4X7	1	X,X	12,12	20,22	7,9.3	9,12	14,16	N/A	N/A
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	N/A	N/A
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18	N/A	N/A
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	N/A	N/A
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	N/A	N/A
7AMXEQ	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
7JTXUK	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	12	20,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
7PD3JE	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,X,[Y]	[9],[10],12,12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
7W3E4B	1	X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		
83HLUE	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,X,[Y]	[9],[10],12,12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
899V4C	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
8D3P4Y	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
8F369F	1	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
8UN927	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
962VMC	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
9NFCQ6	1	X,X	12,12	20,22	7,9.3	9,12	14,16	NA	NA
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	NA	NA
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18	NA	NA
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	NA	NA
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	NA	NA
9UJ7TD	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
9UYUMD	1	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]	9,10,[11],[13]	7,[12],[13],14
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
A44BNH	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
A7U4BL	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
A8L48W	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,X,[Y]	[9],[10],12,12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
AFXDGB	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
B3RHXA	1	X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		
B7NBMX	1	X	12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18	11,13	12,13
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18	9,10,11,13	7,12,13,14
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18	11,13	12,13
	4	X	12	20,22	7,9.3	9,12	14,16	9,10	7,14
BFGF7Y	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
BL3G34	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
BL4BJN	1	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,18	9,10,[11],[13]	7,[12],[13],14
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
BQ9CFC	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	[20],[21],22	[7],[8],9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
CK7FGC	1	X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		
CLT93E	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
CTUGQU	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,X,[Y]	[9],[10],12,12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
CTXYUK	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
D64CM6	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
DFNHLU	1	X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		
DHXN24	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	[7],9.3	[8],9,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18		
	4	X	12	20,22	7,9.3	9,12	14,16		
DJMUHU	1	X	12	20,22	7,9.3	9,12	14,16	N/A	N/A
	2	X,Y	9,10	21,22	8,9.3	8,11	18	N/A	N/A
DJPNYF	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
DP779G	1	X	12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18	11,13	12,13
	3	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18	9,10,11,13	7,12,13,14
	4	X	12	20,22	7,9.3	9,12	14,16	9,10	7,14
DTR4NK	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
DUNLKU	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,12	20,21,22	7,9.3	9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
E9YMUP	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,[12]	[20],21,22	[7],8,9.3	8,[9],11,[12]	[14],[16],18		
	3sp	X,Y	9,10,[12]	21,22	[7],8,9.3	8,[9],11,[12]	[14],[16],18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
EGCJWB	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,X,[Y]	[9],[10],12,12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
EHP4PK	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
EHRX77	1	X:X		20:22			14:16		
	2	X:Y		21:22			18:18		
	3e	X:X		20,21,22			14,16,18		
	3sp	X:Y		21,22			18,18		
	4	X:X		20,22			14,16		
EQ2B3F	1	X,X	12,12	20,22	7,9.3	9,12	14,16	n/a	n/a
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	n/a	n/a
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]	n/a	n/a
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	n/a	n/a
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	n/a	n/a
EWAHRK	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
EYDG3D	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
EZ6GZN	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
FG7NQA	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,X,[Y]	[9],[10],12,12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
FPNUP2	1	X	12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18	11,13	12,13
	3e	X,Y	[9],[10],12	[20],[21],22	7,[8],9.3	[8],9,[11],12	14,16,18	9,10,[11],[13]	7,[12],[13],14
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18	11,13	12,13
	4	X	12	20,22	7,9.3	9,12	14,16	9,10	7,14

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
FRUEEM	1	X,X		20,22	7,9.3		14,16		
	2	X,Y		21,22	8,9.3		18,18		
	3	X,Y		20,21,22	7,8,9.3		14,16,18		
	4	X,X		20,22	7,9.3		14,16		
FTJQ7F	1	X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18		
	4	X	12	20,22	7,9.3	9,12	14,16		
FYR3EZ	1	X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		
G9Y2JV	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
GA32DZ	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18		
	4	X	12	20,22	7,9.3	9,12	14,16		
GQT28K	1	X,X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18		
	4	X,X	12	20,22	7,9.3	9,12	14,16		
GQWJBB	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	[7],[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
GUW8B	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
HPUAVY	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,[10]	21,22	8,9.3	8,[11]	18,18		
	3e	X	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,[Y]	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,[9.3]	9,12	14,16		
HUBC9V	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
JBBN9K	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
JBDHP6	1	X,X	12,12	20,22	7,9.3	9,12	14,16	NE	NE
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	NE	NE
	3e	X,X (Y)	12,12 (9,10)	20,22 (21)	7,9.3 (8)	9,12 (8,11)	14,16 (18)	NE	NE
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	NE	NE
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	NE	NE
JC4N7V	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
JEB4D2	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
JKXUYW	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
JTX6E2	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
JUP6BD	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
K2G3D7	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
K2KM4U	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
K3F9WK	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
KGV9MJ	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
KJY47M	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3F1	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3F2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
L4MRET	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,X,[Y]	[9],[10],12,12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
L7U3CH	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
LDUDRN	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
LNQPE2	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,X (Y)	12,12 (9,10)	20,22 (21)	7,9.3 (8)	9,12 (8,11)	14,16 (18)		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
LPPVXG	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
LTG4Y2	1	X,X	12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18	11,13	12,13
	3e	X,Y	[9],[10],12	20,[21],22	7,8,[9.3]	[8],9,[11],12	14,16,18	9,10,[11],[13]	7,[12],[13],14
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18	11,13	12,13
	4	X,X	12	20,22	7,9.3	9,12	14,16	9,10	7,14

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
M2ZF3U	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
M6DDKP	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
M6WCJ9	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
MAMQ4A	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
MAQ99Z	1	X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		
MFTELG	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
MKBDFY	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
MLJPX2	1	X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		
MMBQVC	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
MMEBQR	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
MV9FKT	1	X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		
MWZGH4	1	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18	9,10,11,13	7,12,13,14
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
MXXMZJ	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
N27JW6	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,X (Y)	12,12 (9,10)	20,22 (21)	7,8,9.3	9,12 (8,11)	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
N2R82K	1	X	12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18	11,13	12,13
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]	9,10,[11],[13]	7,[12],[13],14
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18	11,13	12,13
	4	X	12	20,22	7,9.3	9,12	14,16	9,10	7,14
N323Y7	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
NCNAL2	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10,12	21,22	8,9.3	8,11	18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
NEFAJD	1	X,X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		
	3e	X,X	12	20,22	7,9.3	9,12	14,16		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18		
	4	X,X	12	20,22	7,9.3	9,12	14,16		
NFVA33	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
NJ8ECG	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
NNZJ4Z	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12,12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
NR3EVF	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
NR4ACZ	1	X		20,22			14,16		
	2	X,Y		21,22			18		
	3e	X,Y		20,21,22			14,16,18		
	3sp	X,Y		21,22			18		
	4	X		20,22			14,16		
NV2TFK	1	X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		
PETYLP	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
PEVT4A	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	[7],[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
PMLCHJ	1	X	12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18	11,13	12,13
	3e	X,[Y]	12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]	9,10,[11],[13]	7,[12],[13],14
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18	11,13	12,13
	4	X	12	20,22	7,9.3	9,12	14,16	9,10	7,14
PV3MX6	1	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,18	9,10,[11],[13]	7,[12],[13],14
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
Q87NPZ	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
Q8PGHX	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
Q9YNMB	1	X	12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18	11,13	12,13
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]	9,10,[11],[13]	7,[12],[13],14
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18	11,13	12,13
	4	X	12	20,22	7,9.3	9,12	14,16	9,10	7,14
QDC3UQ	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
QH9TZ2	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
QJ7YJG	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
QM3RBQ	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
QT8MDY	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
QVYMAA	1	X	12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18	11,13	12,13
	3	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18	9,10,11,13	7,12,13,14
	4	X	12	20,22	7,9.3	9,12	14,16	9,10	7,14
QYXMMW	1	X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
R4FV4V	1	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RB3GFN	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
RGWD7Z	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
RJDQV	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,X*	12,12*	20,22	7,9.3 (8)	9,12 (8,11)	14,16 (18)		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
RKC4AA	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
RL448L	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,X,[Y]	[9],[10],12,12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
RQ2GBX	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
RQFUQU	1	X	12	20,22	7,9.3	9,12	14,16	not tested	not tested
	2	X,Y	9,10	21,22	8,9.3	8,11	18	not tested	not tested
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]	not tested	not tested
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18	not tested	not tested
	4	X	12	20,22	7,9.3	9,12	14,16	not tested	not tested
RUR6G4	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
RWLPAU	1	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	3	NA	NA	NA	NA	NA	NA	NA	NA
	4	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
RXHW48	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
RXZ2JL	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
T7AU72	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
T82V3C	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3epi	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
TMBNNU	1	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TNNB9U	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
TPLGR9	1	X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18		
	4	X	12	20,22	7,9.3	9,12	14,16		
TXTHPE	1	X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		
TZKECM	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
U4UW6N	1	X,X	12,12	20,22	7,9.3	9,12	14,16	\	\
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	\	\
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18	\	\
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	\	\
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	\	\

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
UEFZCN	1	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	3e	X,[Y]	[9],10,[11],12	20,[21],22,[23]	[6],7,[8],9.3	[8],9,[11],12	14,16,[17],18	9,10,[11],[13]	7,[12],[13],14
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
UKLWXA	1	X,X	12,12	20,22	7,9.3	9,12	14,16	-	-
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	-	-
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18	-	-
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	-	-
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	-	-
UZEJ7M	1	X,X	12,12	20,22	7,9.3	9,12	14,16	-	-
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	-	-
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18	-	-
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	-	-
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	-	-
VNYWVZ	1	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
VPW3EF	1	X,X	12,12	20,22	7,9.3	9,12	14,16	N/A	N/A
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	N/A	N/A
VXNH2Y	1	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,18	9,10,[11],[13]	7,[12],[13],14
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
W8RWHQ	1	X	12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18	11,13	12,13
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18		
	4	X	12	20,22	7,9.3	9,12	14,16	9,10	7,14
WUK6YQ	1	X	12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18		
WVC6W3	1	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]	9,10,[11],[13]	7,[12],[13],14
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
WWABFG	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
WWPYAG	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
X3WMRP	1	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,18	9,10,[11],[13]	7,[12],[13],14
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
Y9VP9U	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
Y9XA6B	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
YFGDCD	1	X,X	12,12	20,22	7,9.3	9,12	14,16	-	-
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	-	-
	3ef	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18	-	-
	3sf	X,Y	9,10	21,22	8,9.3	8,11	18,18	-	-
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	-	-
YK748M	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10,[12]	21,22	8,9.3	8,11,[12]	[14],[16],18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
YUGEPE	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12,12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
YUTXNQ	1	X,X	12,12	20,22	7,9.3	9,12	14,16	NE	NE
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	NE	NE
	3e	X,X (Y)	12,12 (9,10)	20,22 (21)	7,9.3 (8)	9,12 (8,11)	14,16 (18)	NE	NE
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	NE	NE
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	NE	NE
YVR476	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
YY644W	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
Z4ELVX	1	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18	9,10,11,13	7,12,13,14
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18	11,13	12,13
	4	X,X	12,12	20,22	7,9.3	9,12	14,16	9,10	7,14
Z6DRED	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,[Y]	[9],[10],12	20,[21],22	7,[8],9.3	[8],9,[11],12	14,16,[18]		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
Z8HC6X	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3e	X,Y	9,10,12	20,21,22	7,8,9.3	8,9,11,12	14,16,18		
	3sp	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		
ZZEH2P	1	X,X	12,12	20,22	7,9.3	9,12	14,16		
	2	X,Y	9,10	21,22	8,9.3	8,11	18,18		
	3	X,Y	9,10,[12]	[20],21,22	[7],8,9.3	8,[9],11,[12]	[14],[16],18,18		
	4	X,X	12,12	20,22	7,9.3	9,12	14,16		

Results in brackets "[ ]" indicate minor or weaker alleles  
 \* See Additional Comments (Table 8)

# STR Results - Part III

TABLE 3

WebCode	Item	D2S1338	D19S433
2UBNUF	1	16,20	12,14
	2	17,26	12
2W9GBR	1	16,20	12,14
	2	17,26	12,12
	3e	16,20 (17,26)	12;14
	3sp	17,26	12,12
	4	16,20	12,14
39KW64	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
3H3KRP	1	16,20	12,14
	2	17,26	12,12
	3e	16,20 (17,26)	12;14
	3sp	17,26	12,12
4CEB4D	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
4JGJA6	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
6KQTXW	1	16,20	
	2	17,26	
	3e	16,[17],20,[26]	
	3sp	17,26	
6PYCYA	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
6UWW6E	1	16,20	12,14
	2	17,26	12
6WL3K6	1	16,20	12,14
	2	17,26	12,12

TABLE 3

WebCode	Item	D2S1338	D19S433
77PCRU	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
7AK4X7	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
7AMXEQ	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
7JTXUK	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
7W3E4B	1	16,20	12,14
	2	17,26	12
83HLUE	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
	4	16,20	12,14
8UN927	1	16,20	12,14
	2	17,26	12,12
962VMC	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
9UJ7TD	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
9UYUMD	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
	4	16,20	12,14
A44BNH	1	16,20	12,14
	2	17,26	12,12

TABLE 3

WebCode	Item	D2S1338	D19S433
A7U4BL	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12
	4	16,20	12,14
AFXDGB	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
B3RHXA	1	16,20	12,14
	2	17,26	12
BFGF7Y	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
BL3G34	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
	4	16,20	12,14
BL4BJN	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,[14]
	3sp	17,26	12,12
	4	16,20	12,14
BQ9CFC	1	16,20	12,14
	2	17,[26]	12,12
	3e	16,17,20,26	12,[14]
	3sp	17,[26]	12,12
	4	16,20	12,14
CK7FGC	1	16,20	12,14
	2	17,26	12
CLT93E	1	16,20	12,14
	2	17,26	12,12
CTXYUK	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
D64CM6	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14

TABLE 3

WebCode	Item	D2S1338	D19S433
DFNHLU	1	16,20	12,14
	2	17,26	12
DHXN24	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,[14]
	3sp	17,26	12
DJMUHU	1	16,20	12,14
	2	17,26	12
DJPNYF	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
	4	16,20	12,14
DP779G	1	16,20	12,14
	2	17,26	12
	3	16,17,20,26	12,14
	4	16,20	12,14
DTR4NK	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
E9YMUP	1	16,20	12,14
	2	17,26	12,12
	3e	[16],17,[20],26	12,[14]
	3sp	[16],17,Nd*,26	12, Nd*
EGCJWB	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
EHP4PK	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
EQ2B3F	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,[14]
	3sp	17,26	12,12
	4	16,20	12,14

TABLE 3

WebCode	Item	D2S1338	D19S433
EWAHRK	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
EYDG3D	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
	4	16,20	12,14
EZ6GZN	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
FG7NQA	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,[26]	12,14
	3sp	17,26	12,12
	4	16,20	12,14
FPNUP2	1	16,20	12,14
	2	17,26	12
	3e	16,[17],20,[26]	12,[14]
	3sp	17,26	12
	4	16,20	12,14
FRUEEM	1	16,20	12,14
	2	17,26	12,12
	3	16,17,20,26	12,14
	4	16,20	12,14
	FTJQ7F	1	16,20
2		17,26	12
3e		16,17,20,26	12,14
3sp		17,26	12
4		16,20	12,14
FYR3EZ	1	16,20	12,14
	2	17,26	12
G9Y2JV	1	16,20	12,14
	2	17,26	12,12
GQT28K	1	16,20	12,14
	2	17,26	12
	3e	16,17,20,26	12,14
	3sp	17,26	12
	4	16,20	12,14

TABLE 3

WebCode	Item	D2S1338	D19S433
GQWJBB	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,[14]
	3sp	17,26	12,12
	4	16,20	12,14
GUW8B	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
	4	16,20	12,14
HPUAVY	1	16,20	12,14
	2	17,[26]	12,12
	3e	16,[17],20,[26]	12,[14]
	3sp	17,[26]	12,12
	4	16,20	12,14
HUBC9V	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
JBBN9K	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
JBDHP6	1	16,20	12,14
	2	17,26	12,12
	3e	16,20 (17,26)	12;14
	3sp	17,26	12,12
	4	16,20	12,14
JTX6E2	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
K2G3D7	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
K2KM4U	1	16,20	12,14
	2	17,26	12,12

TABLE 3

WebCode	Item	D2S1338	D19S433
K3F9WK	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
	4	16,20	12,14
KGV9MJ	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12
	4	16,20	12,14
L7U3CH	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
LDUDRN	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
LNQPE2	1	16,20	12,14
	2	17,26	12,12
	3e	16,20 (17,26)	12;14
	3sp	17,26	12,12
	4	16,20	12,14
LPPVXG	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
LTG4Y2	1	16,20	12,14
	2	17,26	12
	3e	16,[17],20,[26]	12,[14]
	3sp	17,26	12
	4	16,20	12,14
M6WCJ9	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
	4	16,20	12,14
MAMQ4A	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14

TABLE 3

WebCode	Item	D2S1338	D19S433
MAQ99Z	1	16,20	12,14
	2	17,26	12
MFTELG	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
MKBDFY	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
MLJPX2	1	16,20	12,14
	2	17,26	12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
MMEBQR	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
MV9FKT	1	16,20	12,14
	2	17,26	12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
MXXMZJ	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
N27JW6	1	16,20	12,14
	2	17,26	12,12
	3e	16;17;20;26	12,14
	3sp	17,26	12,12
N323Y7	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
NCNAL2	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12
NEFAJD	1	16,20	12,14
	2	17,26	12
	3e	16,20	12,14
	3sp	17,26	12
	1	16,20	12,14
	2	17,26	12
	3e	16,20	12,14
	3sp	17,26	12

TABLE 3

WebCode	Item	D2S1338	D19S433
NFVA33	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
	4	16,20	12,14
NNZJ4Z	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
	4	16,20	12,14
NR3EVF	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
NV2TFK	1	16,20	12,14
	2	17,26	12
PETYLP	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
	4	16,20	12,14
PEVT4A	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],[20],[26]	12,[14]
	3sp	17,26	12,12
	4	16,20	12,14
Q87NPZ	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
Q8PGHX	1	16,20	12,14
	2	17,26	12,12
QDC3UQ	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
QJ7YJG	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
	4	16,20	12,14

TABLE 3

WebCode	Item	D2S1338	D19S433
QT8MDY	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12
	4	16,20	12,14
QVYMAA	1	16,20	12,14
	2	17,26	12
	3	16,17,20,26	12,14
	4	16,20	12,14
QYXWMW	1	16,20	12,14
	2	17,26	12
RGWD7Z	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,[14]
	3sp	17,26	12,12
	4	16,20	12,14
RJDQV	1	16,20	12,14
	2	17,26	12,12
	3e	16,20 (17,26)	12,14
	3sp	17,26	12,12
	4	16,20	12,14
RKC4AA	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
RQ2GBX	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	INC	12,12
	4	16,20	12,14
RQFUQU	1	16,20	12,14
	2	17,26	12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12
	4	16,20	12,14
RUR6G4	1	16,20	12,14
	2	17,26	12,12
RXHW48	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14

TABLE 3

WebCode	Item	D2S1338	D19S433
RXZ2JL	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,[14]
	3sp	17,26	12,12
	4	16,20	12,14
T7AU72	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
T82V3C	1	16,20	12,14
	2	17,26	12,12
	3epi	16,[17],20,[26]	12,14
	3sp	17,26	12,12
	4	16,20	12,14
TNNB9U	1	16,20	12,14
	2	17,26	12,12
TPLGR9	1	16,20	12,14
	2	17,26	12
	3e	16,17,20,26	12,14
	3sp	17,26	12
TXTHPE	1	16,20	12,14
	2	17,26	12
TZKECM	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
UEFZCN	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
UKLWXA	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
UZEJ7M	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
VPW3EF	1	16,20	12,14
	2	17,26	12,12

TABLE 3

WebCode	Item	D2S1338	D19S433
WUK6YQ	1	16,20	12,14
	2	17,26	12
WWABFG	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
Y9VP9U	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
Y9XA6B	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
YFGDCD	1	16,20	12,14
	2	17,26	12,12
	3ef	16,17,20,26	12,14
	3sf	17,26	12,12
YK748M	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
YUGEPE	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,26	12,12
YUTXNQ	1	16,20	12,14
	2	17,26	12,12
	3e	16,20 (17,26)	12;14
	3sp	17,26	12,12
YVR476	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12

TABLE 3

WebCode	Item	D2S1338	D19S433
YY644W	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
Z6DRED	1	16,20	12,14
	2	17,26	12,12
	3e	16,[17],20,[26]	12,14
	3sp	17,[25],26	12
	4	16,20	12,14
Z8HC6X	1	16,20	12,14
	2	17,26	12,12
	3e	16,17,20,26	12,14
	3sp	17,26	12,12
	4	16,20	12,14
ZZEH2P	1	16,20	12,14
	2	17,26	12,12
	3	[16],17,[20],26	12,12,[14]
	4	16,20	12,14

Results in brackets "[ ]" indicate minor or weaker alleles  
 \* See *Additional Comments (Table 8)*

# Amplification Kit & YSTR Results - Part I

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391
2VJ6JY	Yfiler®						
	1	NA	NA	NA	NA	NA	NA
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
2W9GBR	Yfiler®						
	2	15	13,14	13	30	22	11
2XMWTY	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
39LQLN	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
3H3KRP	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
6KQTXW	PowerPlex®Y						
	1	ND	ND	ND	ND	ND	ND
	2	15	13-14	13	30	22	11
	3e	15	13-14	13	30	22	11
	3sp	15	13-14	13	30	22	11
6WL3K6	Yfiler®						
	2	15	13,14	13	30	22	11
77PCRU	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
83HLUE	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
8D3P4Y	PowerPlex®Y						
	2	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391
8F369F	PowerPlex®Y						
	1	No Results	No Results	No Results	No Results	No Results	No Results
	2	15	13,14	13	30	22	11
8UN927	Yfiler®						
	2	15	13,14	13	30	22	11
9UJ7TD	Yfiler®						
	1	NR	NR	NR	NR	NR	NR
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
	4	15	NR	13	30	22	NR
AFXDGB	Yfiler®						
	1	NR	NR	NR	NR	NR	NR
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
	4	NR	NR	NR	NR	NR	NR
B7NBMX	Yfiler®						
	1	NR	NR	NR	NR	NR	NR
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
	4	NR	NR	NR	NR	NR	NR
BQ9CFC	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
DP779G							
	2	15	13,14	13	30	22	11
	3	15	13,14	13	30	22	11
EGCJWB	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
FG7NQA	Yfiler®						
	1	-	-	-	-	-	-
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
	4	-	-	-	-	-	-

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391
FPNUP2	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
FYR3EZ	Yfiler®						
	2	15	13,14	13	30	22	11
G9Y2JV	Yfiler®						
	2	15	13,14	13	30	22	11
GQT28K	Yfiler®						
	2	15	13-14	13	30	22	11
	3e	15	13-14	13	30	22	11
	3sp	15	13-14	13	30	22	11
HPUAVY	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,[14]	13	30	22	11
	3sp	15	13,14	13	30	22	11
JBDHP6	Yfiler®						
	2	15	13,14	13	30	22	11
L7U3CH	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
LDUDRN	PowerPlex®Y						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
LNQPE2	Yfiler®						
	2	15	13,14	13	30	22	11
LTG4Y2	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
MAMQ4A	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
MAQ99Z	Yfiler®						
	2	15	13,14	13	30	22	11

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391
MKBDFY	Yfiler®						
	1	\	\	\	\	\	\
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
4	\	\	\	\	\	\	
MLJPX2	Yfiler®						
	2	15	13,14	13	30	22	11
MMEBQR	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
MWZGH4	PowerPlex®Y						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
MXXMZJ	Yfiler®						
	2	15	13,14	13	30	22	11
	3	15	13,14	13	30	22	11
N27JW6	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
3sp	15	13,14	13	30	22	11	
N2R82K	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
	4	NR	NR	NR	NR	NR	NR
NEFAJD	Yfiler®						
	1	-	-	-	-	-	-
	2	15	13,14	13	30	22	11
	3e	-	-	-	-	-	-
	3sp	15	13,14	13	30	22	11
4	-	-	-	-	-	-	
NNZJ4Z	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
3sp	15	13,14	13	30	22	11	

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391
NR3EVF	Yfiler®						
	1	No reaction	No reaction	No reaction	No reaction	No reaction	No reaction
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
4	No reaction	No reaction	No reaction	No reaction	No reaction	No reaction	
PMLCHJ	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
4	NR	NR	NR	NR	NR	NR	
Q9YNMB	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
4	NR	NR	NR	NR	NR	NR	
QVYMAA	Yfiler®						
	2	15	13-14	13	30	22	11
	3	15	13-14	13	30	22	11
RB3GFN	PowerPlex®Y						
	2	15	13,14	13	30	22	11
3sp	15	13,14	13	30	22	11	
RJDQV	Yfiler®						
	2	15	13,14	13	30	22	11
RWLPAU	PowerPlex®Y						
	1	NR	NR	NR	NR	NR	NR
	2	15	13,14	13	30	22	11
	3	NA	NA	NA	NA	NA	NA
4	NA	NA	NA	NA	NA	NA	
T7AU72	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
3sp	15	13,14	13	30	22	11	
UEFZCN	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
3sp	15	13,14	13	30	22	11	
VPW3EF	Yfiler®						
	2	15	13,14	13	30	22	11
WUK6YQ	Yfiler®						
	2	15	13,14	13	30	22	11

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391
WVC6W3	PowerPlex®Y						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
Y9VP9U	Yfiler®						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
YK748M	Yfiler®						
	1	-	-	-	-	-	-
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
	4	-	-	-	-	-	-
YUTXNQ	Yfiler®						
	1	NE	NE	NE	NE	NE	NE
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
	4	NE	NE	NE	NE	NE	NE
Z4ELVX	PowerPlex®Y						
	2	15	13,14	13	30	22	11
	3e	15	13,14	13	30	22	11
	3sp	15	13,14	13	30	22	11
ZZEH2P	Yfiler®						
	1	-	-	-	-	-	-
	2	15	13-14	13	30	22	11
	3	15	13-14	13	30	22	11
	4	-	-	-	-	-	-

# YSTR Results - Part II

TABLE 5

WebCode	Item	DYS392	DYS393	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	YGATAH4
2VJ6JY	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2W9GBR	2	11	13	16	10	11	22	15	18	23	13
2XMWTY	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
39LQLN	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
3H3KRP	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
6KQTXW	1	ND	ND	ND	ND	ND					
	2	11	13	16	10	11					
	3e	11	13	16	10	11					
	3sp	11	13	16	10	11					
	4	ND	ND	ND	ND	ND					
6WL3K6	2	11	13	16	10	11	22	15	18	23	13
77PCRU	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
83HLUE	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
8D3P4Y	2	11	13	16	10	11					
	3sp	11	13	16	10	11					
8F369F	1	No Results	No Results	No Results	No Results	No Results	N/A	N/A	N/A	N/A	N/A
	2	11	13	16	10	11	N/A	N/A	N/A	N/A	N/A
8UN927	2	11	13	16	10	11	22	15	18	23	13
9UJ7TD	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
	4	NR	NR	16	NR	NR	NR	15	NR	23	13

TABLE 5

WebCode	Item	DYS392	DYS393	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	YGATAH4
AFXDGB	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
	4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
B7NBMX	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
	4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
BQ9CFC	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
DP779G	2	11	13	16	10	11	22	15	18	23	13
	3	11	13	16	10	11	22	15	18	23	13
EGCJWB	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
FG7NQA	1	-	-	-	-	-	-	-	-	-	-
	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
	4	-	-	-	-	-	-	-	-	-	-
FPNUP2	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
FYR3EZ	2	11	13	16	10	11	22	15	18	23	13
G9Y2JV	2	11	13	16	10	11	22	15	18	23	13
GQT28K	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
HPUAVY	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
JBDHP6	2	11	13	16	10	11	22	15	18	23	13
L7U3CH	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13

TABLE 5

WebCode	Item	DYS392	DYS393	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	YGATAH4
LDUDRN	2	11	13	16	10	11					
	3e	11	13	16	10	11					
	3sp	11	13	16	10	11					
LNQPE2	2	11	13	16	10	11	22	15	18	23	13
LTG4Y2	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
MAMQ4A	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
MAQ99Z	2	11	13	16	10	11	22	15	18	23	13
MKBDFY	1	\	\	\	\	\	\	\	\	\	\
	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
	4	\	\	\	\	\	\	\	\	\	\
MLJPX2	2	11	13	16	10	11	22	15	18	23	13
MMEBQR	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
MWZGH4	2	11	13	16	10	11					
	3e	11	13	16	10	11					
	3sp	11	13	16	10	11					
MXXMZJ	2	11	13	16	10	11	22	15	18	23	13
	3	11	13	16	10	11	22	15	18	23	13
N27JW6	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
N2R82K	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
	4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
NEFAJD	1	-	-	-	-	-	-	-	-	-	-
	2	11	13	16	10	11	22	15	18	23	13
	3e	-	-	-	-	-	-	-	-	-	-
	3sp	11	13	16	10	11	22	15	18	23	13
	4	-	-	-	-	-	-	-	-	-	-
NNZJ4Z	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13

TABLE 5

WebCode	Item	DYS392	DYS393	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	YGATAH4
NR3EVF	1	No reaction	No reaction	No reaction	No reaction	No reaction	No reaction	No reaction	No reaction	No reaction	No reaction
	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
	4	No reaction	No reaction	No reaction	No reaction	No reaction	No reaction	No reaction	No reaction	No reaction	No reaction
PMLCHJ	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
	4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Q9YNMB	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
	4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
QVYMAA	2	11	13	16	10	11	22	15	18	23	13
	3	11	13	16	10	11	22	15	18	23	13
RB3GFN	2	11	13	16	10	11					
	3sp	11	13	16	10	11					
RJDXQV	2	11	13	16	10	11	22	15	18	23	13
RWLPAU	1	NR	NR	NR	NR	NR	NA	NA	NA	NA	NA
	2	11	13	16	10	11	NA	NA	NA	NA	NA
	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
T7AU72	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
UEFZCN	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
VPW3EF	2	11	13	16	10	11	22	15	18	23	13
WUK6YQ	2	11	13	16	10	11	22	15	18	23	13
WVC6W3	2	11	13	16	10	11					
	3e	11	13	16	10	11					
	3sp	11	13	16	10	11					
Y9VP9U	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13

TABLE 5

WebCode	Item	DYS392	DYS393	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	YGATAH4
YK748M	1	-	-	-	-	-	-	-	-	-	-
	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
	4	-	-	-	-	-	-	-	-	-	-
YUTXNQ	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	2	11	13	16	10	11	22	15	18	23	13
	3e	11	13	16	10	11	22	15	18	23	13
	3sp	11	13	16	10	11	22	15	18	23	13
	4	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Z4ELVX	2	11	13	16	10	11					
	3e	11	13	16	10	11					
	3sp	11	13	16	10	11					
ZZEH2P	1	-	-	-	-	-	-	-	-	-	-
	2	11	13	16	10	11	22	15	18	23	13
	3	11	13	16	10	11	22	15	18	23	13
	4	-	-	-	-	-	-	-	-	-	-

# Additional DNA Results

TABLE 6

Locus	WebCode	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4
D12S391	QVYMAA	19,23	18,24	18,19,23,24			19,23
D6S1043	QVYMAA	14,17	11,13	11,13,14,17			14,17
SE33	FPNUP2	17,27.2	23.2,33		17,[23.2],27.2,[33]	23.2,33	17,27.2
	LTG4Y2	17,27.2	23.2,33		17,[23.2],27.2,[33]	23.2,33	17,27.2

# 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 7

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
2UBNUF	No Interpretations Reported, DNA Analyzed for Database purposes only.				83HLUE	Yes	Yes	Yes	No
2VJ6JY	Yes	Yes	Yes	No	899V4C	Yes	Yes	Yes	No
2W9GBR	Yes	Yes	Yes	No	8D3P4Y	Yes	Yes	Yes	No
2XMWTY	Yes	Yes	Yes	No	8F369F	No Interpretations Reported, DNA Analyzed for Database purposes only.			
39KW64	Yes	Yes	Yes	No	8UN927				
39LQLN	Yes	Yes	Yes	No	962VMC	Yes	Yes	Yes	No
3H3KRP	Yes	Yes	Yes	No	9NFCQ6	Yes	Yes	Yes	No
3X6XJ9	Yes	Yes	Yes	No	9UJ7TD	Yes	Yes	Yes	Yes
4CEB4D	Yes	Yes	Yes	No	9UYUMD	Yes	Yes	Yes	No
4JDZKG	Yes	Yes	Yes	No	A44BNH	No Interpretations Reported, DNA Analyzed for Database purposes only.			
4JGJA6	Yes	Yes	Yes	No	A7U4BL	Yes	Yes	Yes	No
4PPTVF	Yes	Yes	Yes	No	A8L48W	Yes	Yes	Yes	No
4UUNEF	Yes	Yes	Yes	No	AFXDGB	Yes	Yes	Yes	No
6HJEQQ	Yes	Yes	Yes	No	B3RHXA	No Interpretations Reported, DNA Analyzed for Database purposes only.			
6KQTXW	Yes	Yes	Yes	No	B7NBMX	Yes	Yes	Yes	No
6PYCYA	Yes	Yes	Yes	No	BFGF7Y	Yes	Yes	Yes	No
6UWW6E	No Interpretations Reported, DNA Analyzed for Database purposes only.				BL3G34	Yes	Yes	Yes	No
6VMW3P	Yes	Yes	Yes	No	BL4BJN	Yes	Yes	Yes	No
6WL3K6					BQ9CFC	Yes	Yes	Yes	No
76R89F	Yes	Yes	Yes	No	CK7FGC	No Interpretations Reported, DNA Analyzed for Database purposes only.			
77PCRU	Yes	Yes	Yes	No	CLT93E	No Interpretations Reported, DNA Analyzed for Database purposes only.			
7AK4X7	Yes	Yes	Yes	No	CTUGQU	Yes	Yes	Yes	No
7AMXEQ	Yes	Yes	Yes	No	CTXYUK	Yes	Yes	Yes	No
7JTXUK	Yes	Yes	Yes	No	D64CM6	Yes	Yes	Yes	No
7PD3JE	Yes	Yes	Yes	No	DFNHLU	No Interpretations Reported, DNA Analyzed for Database purposes only.			
7W3E4B	No Interpretations Reported, DNA Analyzed for Database purposes only.				DHXN24	Yes	Yes	Yes	No

TABLE 7

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
DJMUHU	No Interpretations Reported, DNA Analyzed for Database purposes only.				JEB4D2	Yes	Yes	Yes	No
DJPNYF	Yes	Yes	Yes	No	JKXUYW	Yes	Yes	Yes	No
DP779G	Yes	Yes	Yes	No	JTX6E2	Yes	Yes	Yes	No
DTR4NK	Yes	Yes	Yes	No	JUP6BD	Yes	Yes	Yes	No
DUNLKU	Yes	Yes	Yes	No	K2G3D7	Yes	Yes	Yes	No
E9YMUP	Yes	Yes	Yes	No	K2KM4U	No Interpretations Reported, DNA Analyzed for Database purposes only.			
EGCJWB	Yes	Yes	Yes	No	K3F9WK	Yes-E, No-Sp	Yes	Yes	No
EHP4PK	Yes	Yes	Yes	No	KGV9MJ	Yes	Yes	Yes	No
EHRX77	Yes	Yes	Yes	No	KJY47M	Yes	Yes	Yes	No
EQ2B3F	Yes	Yes	Yes	No	L4MRET	Yes	Yes	Yes	No
EWHRK	Yes	Yes	Yes	No	L7U3CH	Yes	Yes	Yes	No
EYDG3D	Yes	Yes	Yes	No	LDUDRN	Yes	Yes	Yes	No
EZ6GZN	Yes	Yes	Yes	No	LNQPE2	Yes	Yes	Yes	No
FG7NQA	Yes	Yes	Yes	No	LPPVXG	Yes	Yes	Yes	No
FPNUP2	Yes	Yes	Yes	No	LTG4Y2	Yes	Yes	Yes	No
FRUEEM	Yes	Yes	Yes	No	M2ZF3U	Yes	Yes	Yes	No
FTJQ7F	Yes	Yes	Yes	No	M6DDKP	Yes	Yes	Yes	No
FYR3EZ	No Interpretations Reported, DNA Analyzed for Database purposes only.				M6WCJ9	Yes	Yes	Yes	No
G9Y2JV	No Interpretations Reported, DNA Analyzed for Database purposes only.				MAMQ4A	Yes	Yes	Yes	No
GA32DZ	Yes	Yes	Yes	No	MAQ99Z	No Interpretations Reported, DNA Analyzed for Database purposes only.			
GQT28K	Yes	Yes	Yes	No	MFTELG	Yes-e, No-sp	Yes	Yes	No
GQWJBB	Yes	Yes	Yes	No	MKBDFY	Yes	Yes	Yes	No
GUVV8B	Yes	Yes	Yes	No	MLJPX2	No Interpretations Reported, DNA Analyzed for Database purposes only.			
HPUAVY	Yes	Yes	Yes	No	MMBQVC	Yes	Yes	Yes	No
HUBC9V	Yes	Yes	Yes	No	MMEBQR	Yes	Yes	Yes	No
JBBN9K	Yes	Yes	Yes	No	MV9FKT	No Interpretations Reported, DNA Analyzed for Database purposes only.			
JBDHP6	Yes	Yes	Yes	No	MWZGH4	Yes	Yes	Yes	No
JC4N7V	Yes	Yes	Yes	No	MXXMZJ	Yes	Yes	Yes	No

TABLE 7

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
N27JW6	Yes	Yes	Yes	No	RJDXQV	Yes	Yes	Yes	No
N2R82K	Yes	Yes	Yes	No	RKC4AA	Yes	Yes	Yes	No
N323Y7	Yes	Yes	Yes	No	RL448L	Yes	Yes	Yes	No
NCNAL2	Yes	Yes	Yes	No	RQ2GBX	Yes	Yes	Yes	No
NEFAJD	Yes	Yes	Yes	No	RQFUQU	Yes	Yes	Yes	No
NFVA33	Yes	Yes	Yes	No	RUR6G4	No Interpretations Reported, DNA Analyzed for Database purposes only.			
NJ8ECG	Yes	Yes	Yes	No	RWLPAU	No Interpretations Reported, DNA Analyzed for Database purposes only.			
NNZJ4Z	Yes	Yes	Yes	No	RXHW48	Yes	Yes	Yes	No
NR3EVF	Yes	Yes	Yes	No	RXZ2JL	Yes	Yes	Yes	No
NR4ACZ	Yes	Yes	Yes	No	T7AU72	Yes	Yes	Yes	No
NV2TFK	No Interpretations Reported, DNA Analyzed for Database purposes only.				T82V3C	Yes	Yes	Yes	No
PETYLP	Yes	Yes	Yes	No	TMBNNU	No Interpretations Reported, DNA Analyzed for Database purposes only.			
PEVT4A	Yes	Yes	Yes	No	TNNB9U	No Interpretations Reported, DNA Analyzed for Database purposes only.			
PMLCHJ	Yes	Yes	Yes	No	TPLGR9	Yes	Yes	Yes	No
PV3MX6	Yes	Yes	Yes	No	TXTHPE	No Interpretations Reported, DNA Analyzed for Database purposes only.			
Q87NPZ	Yes	Yes	Yes	No	TZKECM	Yes-e, No-sp	Yes	Yes	No
Q8PGHX	No Interpretations Reported, DNA Analyzed for Database purposes only.				U4UW6N	Yes	Yes	Yes	No
Q9YNMB	Yes	Yes	Yes	No	UEFZCN	Yes	Yes	Yes	No
QDC3UQ	Yes	Yes	Yes	No	UKLWXA	Yes	Yes	Yes	No
QH9TZ2	Yes	Yes	Yes	No	UZEJ7M	Yes	Yes	Yes	No
QJ7YJG	Yes	Yes	Yes	No	VNYWVZ	No Interpretations Reported, DNA Analyzed for Database purposes only.			
QM3RBQ	Yes	Yes	Yes	No	VPW3EF	No Interpretations Reported, DNA Analyzed for Database purposes only.			
QT8MDY	Yes	Yes	Yes	No	VXNH2Y	Yes	Yes	Yes	No
QVYMAA	Yes	Yes	Yes		W8RWHQ	Yes	Yes	Yes	No
QYXMMW	No Interpretations Reported, DNA Analyzed for Database purposes only.				WUK6YQ	No Interpretations Reported, DNA Analyzed for Database purposes only.			
R4FV4V	No Interpretations Reported, DNA Analyzed for Database purposes only.				WVC6W3	Yes	Yes	Yes	No
RB3GFN	Yes	Yes	Yes	No	WWABFG	Yes/No	Yes	Yes/No	No
RGWD7Z	Yes	Yes	Yes	No					

TABLE 7

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
WWPYAG	Yes	Yes	Yes	No					
X3WMRP	Yes	Yes	Yes	No					
Y9VP9U	Yes	Yes	Yes	No					
Y9XA6B	Yes	Yes	Yes	No					
YFGDCD	Yes-EF, No-SF	Yes	Yes*	No					
YK748M	Yes	Yes	Yes	No					
YUGEPE	Yes	Yes	Yes	No					
YUTXNQ	Yes	Yes	Yes	No					
YVR476	Yes	Yes	Yes	No					
YY644W	Yes	Yes	Yes	No					
Z4ELVX	Yes	Yes	Yes	No					
Z6DRED	Yes-e, No-sp	Yes	Yes	No					
Z8HC6X	Yes	Yes	Yes	No					
ZZEH2P	Yes	Yes	Yes	No					

Response Summary			Participants reporting DNA results: 177			
<i>Based on results obtained from DNA analysis, could the Victim (Item 1) and/or the Suspect (Item 2) be a contributor to the questioned stains (Items 3 &amp; 4)?</i>						
<b>Responses</b>		Victim (Item 1)		Suspect (Item 2)		
		<u>Item 3</u>	<u>Item 4</u>	<u>Item 3</u>	<u>Item 4</u>	
	Yes	<b>147</b>	<b>147</b>	<b>147</b>	<b>1</b>	
	No	<b>0</b>	<b>0</b>	<b>0</b>	<b>145</b>	
	Inc	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

Participants not reporting Interpretation results: 30

# Additional Comments

TABLE 8

WebCode	Additional Comments
2VJ6JY	The DNA detected in epithelial cell fraction of the victim's skirt (Item 3) is a mixture of DNA from at least two individuals. The victim (Item 1) and the suspect (Item 2) cannot be excluded as donors of the DNA detected in this sample. The DNA detected in the sperm cell fraction of the victim's skirt (Item 3) appears to originate from one male individual. The suspect (Item 2) cannot be excluded as the donor of the DNA detected in this sample. The DNA detected in the stain on the suspect's shirt (Item 4) appears to originate from one female individual. The victim (Item 1) cannot be excluded as the donor of the DNA detected in this sample.
2W9GBR	Use of commas denotes alleles which are associated with each other. Use of semicolons denotes that it is unknown whether or not the alleles are associated. Use of parentheses denotes alleles from a minor contributor(s).
39KW64	Suspect (Item 2) and Victim (Item 1) are included as potential contributors to the DNA profile identified on the epithelial fraction of Item 3. The profile obtained from the sperm fraction of Item 3 matched the DNA profile from Suspect (Item 2).
3H3KRP	KEY: Use of commas denotes alleles which are associated with each other. Use of semicolons denotes that it is unknown whether or not the alleles are associated. Use of parentheses denotes alleles from a minor contributor(s). Use of { } denotes alleles which may be attributed to stutter. ^ Represents a heterozygous locus with one allele below the reporting threshold. * Additional allele(s) were obtained at this locus which were below the reporting threshold of this laboratory. Amelogenin: X,X indicates female source; X,Y indicates male source.
4JDZKG	Item 3 is a mixture of blood and semen, I put in 3 samples 2 for semen & 1 for blood, from the two semen stains we can fully include the suspect and from the blood we can include both victim and suspect however this mixture DNA result is not included in the results table due to the inclusion of the suspect on the two semen samples which would have higher evidential value and also inclusion of the victim on Item 4, the suspects shirt.
4JGJA6	The epithelial fraction of Item 3 is a mixture of DNA. Victim 1 (Item 1) matched the major profile. Suspect (Item 2) could be a contributor to the minor profile in this mixture. The sperm fraction of Item 3 is single source. Victim 1 (Item 1) could not be a contributor to this fraction.
76R89F	Item 3: includes the suspect on the semen stain. Item 3 also includes the victim on the blood stain, however, this has no or minimal evidential value. Item 4: the victim's profile can be read into the blood stain from Item 4, which belongs to the suspect.
9UJ7TD	The partial Y-STR profile from item 4 is consistent with the suspect. The STR profile from item 4 is consistent with the victim only.
A44BNH	Use of commas denotes alleles which are associated with each other.
A7U4BL	MiniFiler results consistent with Identifiler results.
AFXDGB	Minifiler results for items 1-4 are concordant w/ the identifiler results. NR = No Results
B7NBMX	NR = No Results
BFGF7Y	I cannot exclude 'Victim' as a contributor of DNA to the epi fraction of item 3.
BL3G34	The non-sperm (epi) fraction of Item 3 is a mixture. Victim (Item 1) and Suspect (Item 2) are included. The Victim (Item 1) matched the major female profile and the Suspect (Item 2) is a potential contributor to the minor profile. The Suspect (Item 2) matched the sperm fraction of Item 3.
E9YMUP	The genetic profile of the item of evidence identified item #4 is consistent with the genetic profile of the reference sample identified item #1. The item evidence identified item #3 (epitelial[sic] fraction) presents a genetic profile of more than one person. Victim (item #1) and suspect (item #2) can't be excluded of being contributors of the genetic profile on item of evidence #3 (epitelial[sic] fraction). The item evidence identified item #3 (sperm fraction) presents a genetic profile of more than one person. Victim (item #1) and suspect (item #2) can't be excluded of being contributors of the genetic profile of evidence #3 (sperm

TABLE 8

WebCode	Additional Comments
	fraction). Suspect (item #2) can't be excluded of being the major contributor of the genetic profile on item #3. [From Tables 1 & 3 - Amplification Kit & STR Results - Part I & III: "Nd*: allele under detection level"]
EWAHRK	Minifiler results are consistent with Identifiler results for Items 1-4.
FPNUP2	1. The suspect cannot be excluded as the origin of the semen recovered of the skirt of the victim. 2. The victim and the suspect cannot be excluded like aportantes[sic] from the cells recovered of the skirt of the victim. 3. The victim cannot be excluded as the origin of the blood recovered of the shirt of the suspect.
GQT28K	Analysis for Item 1 and Item 2 was carried out by the FTA method. DNA extraction for Item 3 and Item 4 was by phenol-chloroform method. Separation and detection was on the ABI 3130xl Genetic Analyzer and analysis was by GeneMapper.
JBDHP6	Use of commas denotes alleles which are associated with each other. Use of semicolons denotes that it is unknown whether or not the alleles are associated. Use of parentheses denotes alleles from a minor contributor(s). SCF = Sperm Cell Fraction. NSCF = Non-Sperm Cell Fraction. ^ Represents a heterozygous locus with one allele below the reporting threshold. NE = Not Examined. * Additional allele(s) were obtained at this locus which were below the reporting threshold of this laboratory. NR = No Reaction.
K3F9WK	The epithelial fraction of Item 3 is a mixture. The victim (Item 1) matches the major profile, and the suspect (Item 2) is included as a contributor of the minor profile. The sperm fraction of Item 3 is single source. This profile matches the suspect (Item 2).
KGV9MJ	The genetic profile of the piece of evidence identified Item #4 (Suspect's shirt) is consistent with the genetic profile of the reference sample identified Item #1 (Victim). Victim (Item #1) can't be excluded of being the donor of the genetic profile on Item #4 (Suspect's shirt). The genetic profile of the piece of evidence identified Item #3 (epithelial fraction) is from more than one person. Victim (Item #1) and Suspect (Item #2) can't be excluded of being the contributors of the genetic profile on Item #3 (epithelial fraction). The genetic profile of the piece of evidence identified Item #3 (sperm fraction) is from more than one person. Victim (Item #1) and Suspect (Item #2) can't be excluded of being the contributors of the genetic profile on Item #3 (sperm fraction).
LDUDRN	The alleles observed in the sperm fraction of item 3 were also observed in the epi fraction. This could be due to incomplete separation of the fractions.
LNQPE2	Use of commas denotes alleles which are associated with each other. Use of semicolons denotes that it is unknown whether or not the alleles are associated. Use of parentheses denotes alleles from a minor contributor(s).
LTG4Y2	1. The suspect can not be excluded as the origin of the semen found in the victim's skirt. 2. The suspect and the victim can not be excluded as the origin of the cell mixture found in the victim's skirt. 3. The victim can not be excluded as the origin of the blood found in the suspect' shirt.
MAMQ4A	Item 1 and Item 4 were not processed for YSTRs.
MFTELG	Item #1-3.1 - E -> The minor DNA profile in this mixture may be indicative of carryover from the sperm fraction and/or other cellular material.
N27JW6	Use of commas denotes alleles which are associated with each other. Use of semicolons denotes that it is unknown whether or not the alleles are associated. Use of parentheses denotes alleles from a minor contributor(s). Use of { } denotes alleles which may be attributed to stutter. ^ Represents a heterozygous locus with one allele below the reporting threshold. * Additional weak signals were obtained at this locus which were below the reporting standards of this laboratory. Amelogenin: X,X indicates female source; X,Y indicates male source.
N2R82K	"NR" indicates no results at that locus.
NEFAJD	Extraction on the questioned samples i.e. Items 3 and 4 were done using the Chelex protocol. Extraction on the known blood i.e. Items 1 and 2 were done using the FTA method. Quantitation on the questioned samples i.e. Items 3 and 4 were done using the Quantifiler Human Quantification Kit on the RT PCR 7500. Amplification were done using the Identifiler PCR Amplication[sic] Kit and the Y-Filer Kit for Y-STR Capillary

TABLE 8

WebCode	Additional Comments
	Electrophoresis were carried out using the 3130xl Genetic Analyzer.
NNZJ4Z	A mixture of DNA profiles was obtained from item 3 ep (victim's skirt - epithelial fraction) where the major profile matches the DNA profile obtained from item 1 (victim). Item 2 (suspect) can not be excluded as a source to the minor profile obtained from item 3 ep (victim's skirt - epithelial fraction). Item 1 (victim) is excluded as a possible donor to the DNA profile obtained from item 3 sp (victim's skirt - sperm fraction) and this component matches the DNA profile obtained from item 2 (suspect) at all genetic loci tested. The YSTR profile obtained from item 3 ep/s (victim's skirt - both epithelial and sperm fractions) matches the YSTR profile obtained from item 2 (suspect). No YSTR profile was obtained from item 1 (victim) and item 4 (suspect's shirt).
NR4ACZ	The suspect can be linked to the rape and assault via the blood (victim's) found on his shirt (Item 4) and the semen (suspect's) found on the victims skirt (Item 3). A mixture DNA result was also obtained from the victims skirt (Item 3) in which both the victim and suspect could be read in. Due to the fact that the suspect can be linked to both the rape and assault this mixture result has less evidential value.
PETYLP	The epithelial fraction (e) of Item 3 is a mixture. Victim (Item 1) could be a contributor to the epithelial fraction (e) of Item 3. Suspect (Item 2) could be a contributor to the epithelial fraction (e) and the sperm fraction (sp) of Item 3.
PMLCHJ	NR = No Results
Q9YNMB	NR: No Results
R4FV4V	N/A = Not Applicable
RJDQXV	Use of commas denotes alleles which are associated with each other. Use of semicolons denotes that it is unknown whether or not the alleles are associated. Use of parentheses denotes alleles from a minor contributor(s). * = Additional allele(s) were obtained at this locus which were below the reporting threshold of this laboratory.
RWLPAU	NA = Not Applicable. NR = No Results.
T7AU72	All Minifiler results concordant with appropriate Identifiler results at all loci.
T82V3C	Item #3 EPI, DNA3-10-0314-003 EPI presents a genetic profile of more than one person. Victim (DNA3-10-0314-001, Test No. 10-572 Item #1) and suspect (DNA3-10-0314-002, Item #2) cannot be excluded as being the possible donors of the genetic profile on DNA3-10-0314-003 EPI (Item #3e EPI). Genetic profile on item of evidence Item #3 SP DNA3-10-0314-003 sp is consistent with the genetic profile of reference sample DNA3-10-0314-002 (suspect, Item #2). Suspect (DNA3-10-0314-002, Item#2) cannot be excluded as being the donor of the genetic profile on item of evidence DNA3-10-0314-003 SP (Item #3 SP). Genetic profile on item of evidence DNA3-10-0314-004 is consistent with the genetic profile of reference sample DNA3-10-0314-001 (victim, Item #1). Victim (DNA3-10-0314-001, Item #1) cannot be excluded as being the donor of genetic profile on Item of evidence DNA3-10-0314-004 (Item #4).
TMBNNU	N/A = Not Applicable
UEFZCN	A mixture was obtained for item 3e. Possible alleles below threshold present in epithelial fraction of item 3 are consistent with profile from sperm fraction of item 3 and there are additional alleles not explained by the victim and by the suspect references samples. Additional weak signals were obtained wich[sic] were lower that[sic] reporting standard of this laboratory.
UZEJ7M	No Forensic biology tests performed since we were told what each evidence sample contained.
WVC6W3	Items 1 & 4 were not tested w/ Y-STR's/PowerPlex Y.
WWABFG	Item 3 - epi fraction - major female matched victim, & suspect included in minor profile. Item 3 - sperm fraction - single source matched suspect.
Y9VP9U	All MiniFiler results were concordant with Identifiler results.
Y9XA6B	A mixed DNA profile was obtained from the epithelial fraction of item 3. This could be as a result of

TABLE 8

WebCode	Additional Comments
	incomplete separation of the sperm and epithelial fractions during the differential extraction. Both the victim (item 1) and the Suspect (item 2) cannot be excluded as being contributors to the mixed DNA profile obtained from Item 3 (Epithelial fraction).
YFGDCD	SF = Sperm Fraction - Item 1 excluded as possible contributor/donor. EF = Epithelial Fraction - Item 1 included/could be a possible contributor. *Item 2 matches the profile from the sperm fraction of item 3 & item 2 is included/could be a possible contributor to the profile from the epithelial fraction. Item 1 matches the profile from the Item 4.
YUTXNQ	NE - Not Examined. Use of semicolons denotes that it is unknown whether or not the alleles are associated. Use of parentheses denotes alleles from a minor contributor(s).

# **Appendix: Data Sheet**

Collaborative Testing Services ~ Forensic Testing Program

\*\*\*\*\*

## **Test No. 10-582: DNA-Semen**

DATA MUST BE RECEIVED BY May 3, 2010 TO BE INCLUDED IN THE REPORT

Participant Code:

WebCode:

### **Please Note: The Accreditation Release Section Has Moved**

CTS submits external proficiency test data directly to ASCLD/LAB and FQS-International. 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 FQS-International. (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 FQS-International.

#### Scenario:

Police are investigating the physical assault and rape of a woman found unconscious in an alley. The suspect is the woman's former boyfriend who lives two blocks from where the woman was found. Police have recovered two questioned stains: one from the victim's skirt and one from the suspect's shirt. Screening has been done on the samples with the following results: Item 3 (victim's skirt) is positive for both blood and semen and Item 4 (suspect's shirt) is positive for blood only. The screening lab is submitting these samples (Items 3 and 4) along with the known blood samples of the victim and the suspect.

#### Items Submitted (Sample Pack S2):

Item 1: Known blood from the Victim.

Item 2: Known blood from the Suspect.

Item 3: Questioned blood and semen mixture stain from the victim's skirt. (pink material with black dots)

Item 4: Questioned blood stain from the suspect's shirt. (tan material)

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

Page 1 of 5

**Part I: DNA ANALYSIS**

**TABLE 1a: STR & Amelogenin Results**

- \* Report alleles in numerical order, separated by a comma.
- \* Follow your laboratory procedures for reporting homozygotes (phenotype vs. genotype).
- \* 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). If you wish to indicate minor or weaker alleles, please enclose them within brackets [ ].

<b>Example</b>	<b>D3S1358</b>	<b>D5S818</b>	<b>D7S820</b>	<b>D8S1179</b>	<b>D13S317</b>	<b>D16S539</b>	<b>D18S51</b>	<b>D21S11</b>	
<b>A</b>	<i>e</i>	15,18	12,17	10	14	12	12	17,19	28,29
	<i>sp</i>	15	12	8,9	10,15	8,11	8,11	13,17	31,33.2
<b>B</b>	15,18	12,17	[8],[9],10	[10],14, [15]	8,11,12	8,11,12	13,17,19	28,29, 31,33.2	

**STR Amplification Kit Used:**

Please check all that apply.

- Cofiler™/Profiler Plus™       PowerPlex 16®  
 Identifiler®                       Other \_\_\_\_\_

<b>ITEM</b>	<b>D3S1358</b>	<b>D5S818</b>	<b>D7S820</b>	<b>D8S1179</b>	<b>D13S317</b>	<b>D16S539</b>	<b>D18S51</b>	<b>D21S11</b>
<b>1</b>								
<b>2</b>								
<b>3</b>								
<b>4</b>								

<b>ITEM</b>	<b>Amelogenin</b>	<b>CSF1PO</b>	<b>FGA</b>	<b>TH01</b>	<b>TPOX</b>	<b>vWA</b>	<b>Penta D</b>	<b>Penta E</b>
<b>1</b>								
<b>2</b>								
<b>3</b>								
<b>4</b>								

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

**YSTR Results**

TABLE 1a, continued

**YSTR Amplification Kit Used** Please check all that apply.  
 Yfiler®     PowerPlex Y®     Other \_\_\_\_\_

ITEM	D2S1338	D19S433	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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	DYS392	DYS393	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	Y GATA H4
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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"/>

TABLE 1b: Additional DNA Results

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

Please return all pages of this data sheet.

**Part II: 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>
<b>Yes</b>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Yes</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>No</b>	<input type="checkbox"/>	<input type="checkbox"/>	<b>No</b>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Inconclusive</b>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Inconclusive</b>	<input type="checkbox"/>	<input type="checkbox"/>

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

**Part IV: ADDITIONAL COMMENTS**

Comments regarding any part of this Forensic Biology Test.  
*Written conclusions (including statistical information) for DNA analysis are not required.*  
*Any interpretations based on the results obtained should be indicated above.*

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**Return Instructions**  
Data Sheets can be mailed or faxed (please include a cover sheet) and must be received by **May 3, 2010** to be included in the report.

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

FAX: +1-571-434-1937  
or Toll-Free (U.S. only): 1-866-FAX-2CTS (329-2287)  
TEL: +1-571-434-1925 (8 am - 4:30 pm EST)  
EMAIL: forensics@cts-interlab.com

www.ctsforensics.com

**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. **10-582: DNA-Semen**

This release page must be completed and received by **May 3, 2010** 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) \_\_\_\_\_

### FQS-INTERNATIONAL RELEASE

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

FQS-International 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.**

Page 5 of 5