



## **DNA - Mixture Test No. 14-581 Summary Report**

---

This proficiency test was sent to 147 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 131 participants (89% response rate) and are compiled into the following tables:

	<u>Page</u>
<u><a href="#">Manufacturer's Information</a></u>	<u><a href="#">2</a></u>
<u><a href="#">Summary Comments</a></u>	<u><a href="#">4</a></u>
<u><a href="#">Table 1: Amplification Kit(s) &amp; STR Results - Part I</a></u>	<u><a href="#">5</a></u>
<u><a href="#">Table 2: STR Results - Part II</a></u>	<u><a href="#">22</a></u>
<u><a href="#">Table 3: STR Results - Part III</a></u>	<u><a href="#">37</a></u>
<u><a href="#">Table 4: Amplification Kit(s) &amp; YSTR Results - Part I</a></u>	<u><a href="#">51</a></u>
<u><a href="#">Table 5: YSTR Results - Part II</a></u>	<u><a href="#">58</a></u>
<u><a href="#">Table 6: Additional DNA Results</a></u>	<u><a href="#">64</a></u>
<u><a href="#">Table 7: DNA Interpretations</a></u>	<u><a href="#">66</a></u>
<u><a href="#">Table 8: Additional Comments</a></u>	<u><a href="#">70</a></u>
<u><a href="#">Appendix: Data Sheet</a></u>	<u><a href="#">73</a></u>

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

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

# Manufacturer's Information

Each sample pack consisted of two known bloodstains on clean, white cloth (Items 1 & 2), and two questioned stains one on clean, white material with floral pattern (Item 3) and one on clean, orange patterned material (Item 4). Participants were requested to analyze these items using their existing protocols.

**SAMPLE PREPARATION:** The stains in Items 1, 2 and 3 were prepared from human whole blood which was either drawn into citric acid preservative bloodbank bags or EDTA tubes. Item 4 was a mixture prepared from human whole blood and semen. The semen, procured from a cryobank, was from a single donor, but stored frozen in multiple vials at -196° C in liquid nitrogen tanks. The semen was thawed and first mixed 1:1 with TAE buffer, then mixed 1:1 with the blood. This mixture was used to spot the Item 4 substrate. Item 1 (50 µl) and Item 3 (50 µl) were blood collected from one female donor and Item 2 (50 µl) was blood collected from a male donor. Item 4 (50 µl) was a mixture containing the blood from a female donor and semen from a male donor; neither donor in the mixture was used to prepare other items in this test. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on January 6, 2014 following receipt of predistribution results.

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

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

## *Amelogenin and STR Results*

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

<u>Item</u>	<u>D2S1338</u>	<u>D3S1358</u>	<u>D5S818</u>	<u>D7S820</u>	<u>D8S1179</u>	<u>D13S317</u>
1	17,20	16,17	10,10	10,12	12,14	12,13
2	18,25	15,17	11,13	9,10	9,13	12,12
3	17,20	16,17	10,10	10,12	12,14	12,13
4-Blood	17,24	14,15	9,12	11,12	11,11	8,11
4-Semen	17,23	15,16	11,13	9,11	14,14	10,12

  

<u>Item</u>	<u>D16S539</u>	<u>D18S51</u>	<u>D19S433</u>	<u>D21S11</u>	<u>Amelogenin</u>	<u>CSF1PO</u>
1	8,9	17,21	13,14	28,28	X,X	12,13
2	11,13	12,12	13,14	29,30	X,Y	11,11
3	8,9	17,21	13,14	28,28	X,X	12,13
4-Blood	11,12	15,17	14,14	30,31.2	X,X	10,12
4-Semen	11,13	18,21	13,15.2	28,30.2	X,Y	11,12

  

<u>Item</u>	<u>FGA</u>	<u>PentaD</u>	<u>PentaE</u>	<u>TH01</u>	<u>TPOX</u>	<u>vWA</u>
1	26,27	9,11	8,17	7,7	7,10	17,20
2	21,23	10,14	7,17	6,9.3	8,11	15,15
3	26,27	9,11	8,17	7,7	7,10	17,20
4-Blood	20,26	10,12	10,17	7,7	11,12	16,16
4-Semen	21,22	9,9	5,12	7,7	8,8	14,18

## YSTR Results

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

<b><u>Item</u></b>	<b><u>DYS19</u></b>	<b><u>DYS385</u></b>	<b><u>DYS389-I</u></b>	<b><u>DYS389-II</u></b>	<b><u>DYS390</u></b>	<b><u>DYS391</u></b>	<b><u>DYS392</u></b>	<b><u>DYS393</u></b>
2	14	11,14	12	28	23	11	13	13
4-Semen	13	11,17	12	30	24	10	11	13

  

<b><u>Item</u></b>	<b><u>DYS437</u></b>	<b><u>DYS438</u></b>	<b><u>DYS439</u></b>	<b><u>DYS448</u></b>	<b><u>DYS456</u></b>	<b><u>DYS458</u></b>	<b><u>DYS635</u></b>	<b><u>Y GATA H4</u></b>
2	15	12	11	19	15	17	24	11
4-Semen	14	10	12	20	15	16	21	9

Release Date of Manufacturer's Information: 31-March-2014

## **Summary Comments**

The DNA-Mixture test is part of the DNA Sample Specific Series; where participants are advised of the body fluid(s) that make up the questioned stains. The test is designed to allow participants to assess their proficiency in the analysis of dried stains containing potential mixtures where screening has already been completed. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Items 1 and 3 were blood collected from one female donor and Item 2 was blood collected from a male donor. Item 4 was a mixture containing the blood from a female donor and semen from a male donor; neither donor in the mixture was used to prepare other items in this test. (See Manufacturer's Information for preparation details)

Of the 131 responding, 130 participants reported DNA interpretations. All of these participants included the victim (Item 1) and excluded the suspect (Item 2) as a possible contributor to the Item 3 stain. Additionally, all participants that reported interpretations excluded the victim (Item 1) and the suspect (Item 2) as possible contributors to the Item 4 mixture.

Six participants reported allelic results that were inconsistent with the consensus/predistribution results. Two reported additional alleles at one or more loci. Two reported inconsistent alleles at one or more loci. One participant was missing an allele at one locus and one participant was missing alleles at one locus and also reported an inconsistent allele at one locus.

# Amplification Kit(s) & STR Results - Part I

TABLE 1

WebCode	Item	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
23HEFR	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
27WEYC	PowerPlex® 16 HS						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp		15,16	11,13	9,11	14	10,12
2GFJD3	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
2M8X74	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
2NW3TV	Identifiler®						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14	10,12
2TTQ8H	PowerPlex® 16 HS						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
2Z8WKZ	Identifiler Plus						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14	10,12

TABLE 1

WebCode	Item	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
32ECQK	Identifiler® Identifiler Plus						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14	10,12
3Q23B9	Identifiler Plus, MiniFiler						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14	10,12
3VUAQV	IdPlexPlus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,24	14,15	9,12	11,12	11,11	8,11
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
4BG77V	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15	9,[11],12	11,12	11	8,11
	4sp		15,16	11,13	9,11	14	10,12
4RRQ23	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
6L7YML	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
6QUXPF	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
6R99VZ	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,16	9,12,13	9,11,12	11	8,11
	4sp		15,16	11,13	9,11	14	10,12

TABLE 1

WebCode	Item	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
6R9D73	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
6V8HW2	Identifiler Plus						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14	10,12
7AYPFV	Identifiler®						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,24	14,15	9,12	11,12	11	8,11
	4sp	17,23	15,16	11,13	9,11	14	10,12
7BAQ2U	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,24	14,15	9,12	11,12	11,11	8,11
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
7GRBRM	Identifiler®						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14	10,12
7UTDUW	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
82GRVF	Identifiler®						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14	10,12
84E3ZA	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12

TABLE 1

WebCode	Item	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
84XL92	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
8BLRFF	PowerPlex®21						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,12	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
8KFRXE	Identifiler®						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
8NDHXX	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
8VUYJG	Identifiler®						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14	10,12
94KYJQ	Identifiler® MiniFiler						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,24	14,15	9,12	11,12	11,11	8,11
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
97Y6E9	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
9C2G9K	Identifiler®						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12



TABLE 1

WebCode	Item	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
9KFAQV	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
9Q8CY2	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,16	9,12,13	9,11,12	11,14	8,10,11,12
	4sp		15,16	11,13	9,11	14	10,12
9RWNFU	Identifiler®						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14	10,12
A934GE	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
ANL8DF	PowerPlex® 21						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
AT4HFQ	Identifiler Plus						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14	10,12
B2D4GR	PowerPlex® 16 HS						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp		15,16	11,13	9,11	14	10,12
B7G8VE	Identifiler®						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14	10,12

TABLE 1

WebCode	Item	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
BF74QD	Identifiler®						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14	10,12
BN8ATV	Identifiler Plus						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14	10,12
BNQVKL	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,24	14,15	9,12	11,12	11,11	8,11
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
BPKPCN	COfiler® and Profiler Plus®						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
BPZALZ	PowerPlex® 16 HS						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
C7WUYE	Identifiler®						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14	10,12
C9EKMQ	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
CJUNLA	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12

TABLE 1

WebCode	Item	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
CQRHF2	Identifiler Plus						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14	10,12
CWCF4P	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
D3GU6K	Identifiler Plus, MiniFiler						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
D9TQ4T	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,16	9,11,12,13	11,12	11,14	8,10,11,12
	4sp		15,16	11,13	9,11	14	10,12
DBR3LL	Identifiler Plus						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14	10,12
DCKY8A	Identifiler®						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14	10,12
E7ED8J	Identifiler Plus, MiniFiler						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
EF6898	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp		15,16	11,13	9,11	14	10,12

TABLE 1

WebCode	Item	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
EKUMMT	PowerPlex® ESI16 and in-house kit						
	1	17,20	16,17			12,14	
	2	18,25	15,17			9,13	
	3	17,20	16,17			12,14	
	4e	17,23,[25]	[14],15,16			[11],14	
	4sp	17,23	15,16			14	
EMFKUJ							
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
ENUWMM	COfiler® and Profiler Plus® PowerPlex-16 Hot Start						
	1		16,17	10,10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12,12
	3		16,17	10,10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12	11,12	11,11,[14]	8,[10],11
	4sp		15,16	11,13	9,11	14,14	10,12
F3XJUJ	NGM SElect						
	1	17,20	16,17			12,14	
	2	18,25	15,17			9,13	
	3	17,20	16,17			12,14	
	4e	17,[23],24	14,15,[16]			11,[14]	
	4sp	17,23	15,16			14,14	
F9HGKR	Identifiler® Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
FB3ENN	Identifiler Plus						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14	10,12
FD6P9P	Identifiler Plus						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14	10,12
FLARZF	Identifiler®						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14	10,12

TABLE 1

WebCode	Item	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
GB6KLW	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp		15,16	11,13	9,11	14	10,12
GBXQDM	Identifiler Plus						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14	10,12
GEMUJ2	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
GRKZGD	Identifiler Direct, GlobalFiler						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,24	14,15	9,12	11,12	11,11	8,11
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
GRKZJX	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
H2TUB6	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
H7J4L4	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
H7YRHN	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,12	[9],11,12	11,[14]	8,[10],11
	4sp	17,23	15,16	11,13	9,11	14,14	10,12

TABLE 1

WebCode	Item	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
HDF6K4	Identifiler®						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,23,24	14,15,[16]	9,11,12,13	9,11,12	11,11,[14]	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
HE49PP	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15	9,11,12,13	11,12	11	8,11
	4sp		15,16	11,13	9,11	14	10,12
HLUW3E	PowerPlex®16 PowerPlex® ESX16, PowerPlex® ES116						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
HZWE2U	Identifiler Plus & MiniFiler						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14	10,12
JGRM2C	Identifiler® MiniFiler						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
JV6DRT	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15	9,[11],12	11,12	11	8,11
	4sp		15,16	11,13	9,11	14	10,12
JX6VJT	PowerPlex® 16 HS						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp		15,16	11,13	9,11	14	10,12
K7BYZB	Identifiler®						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14	10,12

TABLE 1

WebCode	Item	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
KBK4QQ	PowerPlex® 16 HS						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp		15,16	11,13	9,11	14	10,12
L6GL4B	COfiler® and Profiler Plus® PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
LC3EFB	COfiler® and Profiler Plus®						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
LDCJTY	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,11,[12]
	4sp		15,16	11,13	9,11	14	10,12
MBTAU6	COfiler® and Profiler Plus®						
	1		16,17	10,10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12,12
	3		16,17	10,10	10,12	12,14	12,13
	4e		14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp		15,16	11,13	9,11	14,14	10,12
MC9G4T	PowerPlex® 16 HS						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
MJQ2ZD	Identifiler®						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,10,11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
MRD8N6	Identifiler®						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,23,24	14,15	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14	10,12

TABLE 1

WebCode	Item	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
N2CLT4	PowerPlex ESI						
	1	17,20	16,17			12,14	
	2	18,25	15,17			9,13	
	3	17,20	16,17			12,14	
	4e	17,24	14,15			11,11	
	4sp	17,23	15,16			14,14	
N2CUPV	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,11,[12]
	4sp		15,16	11,13	9,11	14	10,12
NHHYER	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15	9,11,12,13	11,12	11,14	8,11,12
	4sp		15,16	11,13	9,11	14	10,12
NW6PMF	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
P6HVZY	PowerPlex®21						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,24	14,15,16	9,12,13	9,11,12	11,14	8,11,12
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
PE6WG9	Identifiler®						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,24	14,15	9,12	11,12	11,11	8,11
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
PEB3ZH	Identifiler®						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,[13]	[9],11,12	11,14	8,10,11,[12]
	4sp	17,23	15,16	11,13	9,11	14	10,12
PT8F4R	PowerPlex® 16 HS						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12



TABLE 1

WebCode	Item	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
Q9FR86	SGM Plus						
	1	17,20	16,17			12,14	
	2	18,25	15,17			9,13	
	3	17,20	16,17			12,14	
	4e	17,24	14,15,[16]			11,[14]	
	4sp	17,23	15,16			14,14	
QBJMTT	PowerPlex® 16 HS						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
QBM8HG	PowerPlex® 16 HS						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
QZ9RZN	PowerPlex®16 HS						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
QZP7GY	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
R3LW4C	COfiler® and Profiler Plus®						
	1		16,17	10,10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12,12
	3		16,17	10,10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14,14	10,12
R8GW8Y	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,24	14,15	9,12	11,12	11,11	8,11
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
RDHM8K	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,11,12,13	[9],11,12	11,[14]	8,[10],11
	4sp		15,16	11,13	9,11	14	10,12

TABLE 1

WebCode	Item	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
RFR6PZ	IdentifilerPlus						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14	10,12
RM9TDB	Identifiler®						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
RUE9HQ	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
RUUP9D	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
RW3NL8	Identifiler Plus						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14	10,12
RYBXTW	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
TBYAG2	Identifiler®						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,24	14,15	9,12	11,12	11,11	8,11
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
TGMWK8	Identifiler Plus and MiniFiler						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14,14	10,12

TABLE 1

WebCode	Item	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
U47RDA	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
U7K9W8	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
UBGTY7	COfiler® and Profiler Plus®						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,[12]	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
UWBTZ8	Identifiler Plus, MiniFiler						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
VDFE7A	ESX16						
	1	17,20	16,17			12,14	
	2	18,25	15,17			9,13	
	3	17,20	16,17			12,14	
	4e	17,24	14,15,[16]			11,[14]	
	4sp	17,23	15,16			14	
VKTKNY	Identifiler® MiniFiler						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14	10,12
VLLHRY	Identifiler®						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
VM8VRX	NGM						
	1	17,20	16,17			12,14	
	2	18,25	15,17			9,13	
	3	17,20	16,17			12,14	
	4e	17,[23],24	14,15,[16]			11,[14]	
	4sp	17,23	15,16			14	

TABLE 1

WebCode	Item	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
VNGYLA	COfiler® and Profiler Plus®		PowerPlex® 16 (on knowns only)				
	1		16,17	10,10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12,12
	3		16,17	10,10	10,12	12,14	12,13
	4e		14,15	9,12	9,11,12	11,14	8,11,[12]
	4sp		15,16	11,13	11,12	14,14	10,12
WEX2TU	Identifiler®						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14	10,12
WFMZN9	Identifiler Plus						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14	10,12
WLAZQ8	COfiler® and Profiler Plus®		PowerPlex 16 Hot Start				
	1		16,17	10,10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12,12
	3		16,17	10,10	10,12	12,14	12,13
	4e		14,15	9,12	11,12	11,11	8,11
	4sp		15,16	11,13	9,11	14,14	10,12
WVEZDM	Identifiler Plus						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
XRCD2B	Identifiler Plus and MiniFiler						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14	10,12
Y9UW92	Identifiler Plus + MiniFiler						
	1	17,20	16,17	10,10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12,12
	3	17,20	16,17	10,10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14,14	10,12
YDL4RA	Identifiler Plus						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14	10,12

TABLE 1

WebCode	Item	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
YXDV7E	PowerPlex®16						
	1		16,17	10	10,12	12,14	12,13
	2		15,17	11,13	9,10	9,13	12
	3		16,17	10	10,12	12,14	12,13
	4e		14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp		15,16	11,13	9,11	14	10,12
YXU43V	Identifiler®						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,[23],24	14,15,[16]	9,[11],12,[13]	[9],11,12	11,[14]	8,[10],11,[12]
	4sp	17,23	15,16	11,13	9,11	14	10,12
ZR362L	Identifiler®						
	1	17,20	16,17	10	10,12	12,14	12,13
	2	18,25	15,17	11,13	9,10	9,13	12
	3	17,20	16,17	10	10,12	12,14	12,13
	4e	17,23,24	14,15,16	9,11,12,13	9,11,12	11,14	8,10,11,12
	4sp	17,23	15,16	11,13	9,11	14	10,12
ZUTHQJ	NGM Select						
	1	17,20	16,17			12,14	
	2	18,25	15,17			9,13	
	3	17,20	16,17			12,14	
	4e	17,[23],24	[14],15,[16]			11,[14]	
	4sp	17,23	15,16			14,14	

See Additional Comments (Table 8) for laboratory specific notations.

# STR Results - Part II

TABLE 2

WebCode	Item	D16S539	D18S51	D19S433	D21S11	Amelogenin	CSF1PO
23HEFR	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
27WEYC	1	8,9	17,21		28	X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X	12,13
	4e	11,12,13	15,17,18,21		28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
2GFJD3	1	8,9	17,21		28	X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
2M8X74	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,14,[15.2]	[28],30,[30.2],31.2	X,X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
2NW3TV	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,[15.2]	[28],30,[30.2],31.2	X,Y	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
2TTQ8H	1	8,9	17,21		28	X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
2Z8WKZ	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14	[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
32ECQK	1	8,9	17,21	13,14	28	X,X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X,X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
3Q23B9	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,[15.2]	[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12

TABLE 2

WebCode	Item	D16S539	D18S51	D19S433	D21S11	Amelogenin	CSF1PO
3VUAQV	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12	15,17	14,14	30,31.2	X,X	10,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
4BG77V	1	8,9	17,21		28	X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X	12,13
	4e	11,12	15,17		30,31.2	X	10,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
4RRQ23	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	14,[15.2]	[28],30,[30.2],31.2	X,X	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
6L7YML	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
6QUXPF	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,14,[15.2]	[28],30,[30.2],31.2	X,X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
6R99VZ	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12,13	15,17,18		28,30,31.2	X,X	10,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
6R9D73	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,14,[15.2]	[28],30,[30.2],31.2	X,X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
6V8HW2	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12	15,17,[21]	[13],14	30,[30.2],31.2	X	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
7AYPFV	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12	15,17	14	30,31.2	X	10,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12

TABLE 2

WebCode	Item	D16S539	D18S51	D19S433	D21S11	Amelogenin	CSF1PO
7BAQ2U	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12	15,17	14,14	30,31.2	X,X	10,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
7GRBRM	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,13	15,17	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
7UTDUW	1	8,9	17,21		28	X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
82GRVF	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
84E3ZA	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
84XL92	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12,[13]	15,17,[21]		[28],30,[30.2],31.2	X,[Y]	10,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
8BLRFF	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	14,[15.2]	[28],30,31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
8KFRXE	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,13	15,17,18,21	14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
8NDHXX	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12



TABLE 2

WebCode	Item	D16S539	D18S51	D19S433	D21S11	Amelogenin	CSF1PO
8VUYJG	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,13	15,17,18	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
94KYJQ	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12	15,17	14,14	30,31.2	X,X	10,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
97Y6E9	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	14,14,[15.2]	[28],30,[30.2],31.2	X,X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
9C2G9K	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,[15.2]	[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
9KFAQV	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,[15.2]	[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
9Q8CY2	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12,13	15,17,18,21		30,30.2,31.2	X,X	10,11,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
9RWNFU	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,[15.2]	[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
A934GE	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12,[13]	15,17,[18]		[28],30,[30.2],31.2	X,[Y]	10,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
ANL8DF	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,[15.2]	[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12

TABLE 2

WebCode	Item	D16S539	D18S51	D19S433	D21S11	Amelogenin	CSF1PO
AT4HFQ	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,[13]	15,17,[18,21]	[13],14,[15.2]	[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
B2D4GR	1	8,9	17,21		28	X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X	12,13
	4e	11,12,13	15,17,18,21		28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
B7G8VE	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
BF74QD	1	8,9	17,21	13,14	28	X,X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X,X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
BN8ATV	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,[15.2]	30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
BNQVKL	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12	15,17	14,14	30,31.2	X,X	10,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
BPKPCN	1	8,9	17,21		28	X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
BPZALZ	1	8,9	17,21		28	X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
C7WUYE	1	8,9	17,21	13,14	28	X,X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X,X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12

TABLE 2

WebCode	Item	D16S539	D18S51	D19S433	D21S11	Amelogenin	CSF1PO
C9EKMQ	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	14,14,[15.2]	[28],30,[30.2],31.2	X,X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
CJUNLA	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,[15.2]	[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
CQRHF2	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
CWCF4P	1	8,9	17,21		28	X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
D3GU6K	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,13	15,17,18,21	14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
D9TQ4T	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12,13	15,17		28,30,31.2	X,Y	10,11,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
DBR3LL	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,[13]	15,17,[18,21]	[13],14,[15.2]	[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
DCKY8A	1	8,9	17,21	13,14	28	X,X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X,X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
E7ED8J	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12

TABLE 2

WebCode	Item	D16S539	D18S51	D19S433	D21S11	Amelogenin	CSF1PO
EF6898	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12,13	15,17,18,21		28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
EKUMMT	1	8,9	17,21	13,14	28	X	
	2	11,13	12	13,14	29,30	X,Y	
	3	8,9	17,21	13,14	28	X	
	4e	11,[12],13	[15],[17],18,21	13,[14],15.2	28,30.2	X,Y	
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	
EMFKUJ	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
ENUWMM	1	8,9	17,21		28,28	X,X	12,13
	2	11,13	12,12		29,30	X,Y	11,11
	3	8,9	17,21		28,28	X,X	12,13
	4e	11,12	15,17		[28],30,[30.2],31.2	X,X,[Y]	10,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
F3XJUJ	1	8,9	17,21	13,14	28,28	X,X	
	2	11,13	12,12	13,14	29,30	X,Y	
	3	8,9	17,21	13,14	28,28	X,X	
	4e	11,12,[13]	15,17,[18],[21]	[13],14,[15.2]	[28],30,30.2,31.2	X,[Y]	
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	
F9HGKR	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,14,[15.2]	[28],30,[30.2],31.2	X,X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
FB3ENN	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
FD6P9P	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,[15.2]	[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
FLARZF	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12

TABLE 2

WebCode	Item	D16S539	D18S51	D19S433	D21S11	Amelogenin	CSF1PO
GB6KLW	1	8,9	17,21		28	X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X	12,13
	4e	11,12,13	15,17,18,21		28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
GBXQDM	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,[15.2]	[28],30,[30.2],31.2	X,[Y]	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
GEMUJ2	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
GRKZGD	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12	15,17	14,14	30,31.2	X,X	10,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
GRKZJX	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	14,14,[15.2]	[28],30,[30.2],31.2	X,X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
H2TUB6	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	14,14,[15.2]	[28],30,[30.2],31.2	X,X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
H7J4L4	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	14,14,[15.2]	[28],30,[30.2],31.2	X,X	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
H7YRHN	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12	15,17,[18]	[13],14,[15.2]	[28],30,[30.2],31.2	X,X	10,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
HDF6K4	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,14,[15.2]	28,30,30.2,31.2	X,X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12

TABLE 2

WebCode	Item	D16S539	D18S51	D19S433	D21S11	Amelogenin	CSF1PO
HE49PP	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12,13	15,17		30,31.2	X,Y	10,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
HLUW3E	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
HZWE2U	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,[15.2]	[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
JGRM2C	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
JV6DRT	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12	15,17		30,31.2	X,X	10,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
JX6VJT	1	8,9	17,21		28	X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X	12,13
	4e	11,12,13	15,17,18,21		28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
K7BYZB	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]	14,[15.2]	[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
KBK4QQ	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X	12,13
	4e	11,12,13	15,17,18,21		28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
L6GL4B	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12,[13]	15,17		[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21		28,30.2	X,Y	11,12

TABLE 2

WebCode	Item	D16S539	D18S51	D19S433	D21S11	Amelogenin	CSF1PO
LC3EFB	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2,[	X,[Y]	10,[11],12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
LDCJTY	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
MBTAU6	1		17,21		28,28	X,X	
	2		12,12		29,30	X,Y	
	3		17,21		28,28	X,X	
	4e		15,17,18,21		28,30,30.2,31.2	X,Y	
	4sp		18,21		28,30.2	X,Y	
MC9G4T	1	8,9	17,21		28	X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
MJQ2ZD	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,[15.2]	[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
MRD8N6	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,13	15,17	14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
N2CLT4	1	8,9	17,21	13,14	28,28	X,X	
	2	11,13	12,12	13,14	29,30	X,Y	
	3	8,9	17,21	13,14	28,28	X,X	
	4e	11,12	15,17	14,14	30,31.2	X,X	
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	
N2CUPV	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,X	10,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
NHHYER	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12	15,17,21		30,31.2	X,X	10,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12

TABLE 2

WebCode	Item	D16S539	D18S51	D19S433	D21S11	Amelogenin	CSF1PO
NW6PMF	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
P6HVZY	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,13	15,17,18,21	14,15.2	28,30,31.2	X,Y	10,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
PE6WG9	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12	15,17	14,14	30,31.2	X,X	10,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
PEB3ZH	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]	13,14,[15.2]	28,30,30.2,31.2	X	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
PT8F4R	1	8,9	17,21		28	X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
Q9FR86	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	13,14,15.2	[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21,[22]	13,15.2	28,30.2	X,Y	11,12
QBJMTT	1	8,9	17,21		28	X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
QBM8HG	1	8,9	17,21		28	X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
QZ9RZN	1	8,9	17,21		28	X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21		28,30.2	X,Y	11,12



TABLE 2

WebCode	Item	D16S539	D18S51	D19S433	D21S11	Amelogenin	CSF1PO
QZP7GY	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
R3LW4C	1	8,9	17,21		28,28	X,X	12,13
	2	11,13	12,12		29,30	X,Y	11,11
	3	8,9	17,21		28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
R8GW8Y	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12	15,17	14,14	30,31.2	X,X	10,12
	4sp	11,13	18,21	13,15.2	28,30.2		11,12
RDHM8K	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
RFR6PZ	1	8,9	17,21	13,14	28	X,X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X,X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
RM9TDB	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,[15.2]	[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
RUE9HQ	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	14,14,[15.2]	[28],30,[30.2],31.2	X,X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
RUUP9D	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,[15.2]	[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
RW3NL8	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,[15.2]	[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12

TABLE 2

WebCode	Item	D16S539	D18S51	D19S433	D21S11	Amelogenin	CSF1PO
RYBXTW	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
TBYAG2	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12	15,17	14,14	30,31.2	X,X	10,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
TGMWK8	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
U47RDA	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,13	15,17,18,21	14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
U7K9W8	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,14,[15.2]	[28],30,[30.2],31.2	X,X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
UBGTY7	1	8,9	17,21		28	X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
UWBTZ8	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,13	15,17,18,21	14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
VDFE7A	1	8,9	17,21	13,14	28	X	
	2	11,13	12	13,14	29,30	X,Y	
	3	8,9	17,21	13,14	28	X	
	4e	11,12	15,17	14	30,31.2	X,[Y]	
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	
VKTKNY	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,[15.2]	[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12

TABLE 2

WebCode	Item	D16S539	D18S51	D19S433	D21S11	Amelogenin	CSF1PO
VLLHRY	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
VM8VRX	1	8,9	17,21	13,14	28,28	X,X	
	2	11,13	12,12	13,14	29,30	X,Y	
	3	8,9	17,21	13,14	28,28	X,X	
	4e	11,12,[13]	15,17,[18],[21]	[13],14,[15.2]	[28],30,[30.2],31.2	X,[Y]	
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	
VNGYLA	1	8,9	17,21		28,28	X,X	12,13
	2	11,13	12,12		29,30	X,Y	11,11
	3	8,9	17,21		28,28	X,X	12,13
	4e	11,12	15,17		28,30,30.2,31.2	X,X,[Y]	10,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
WEX2TU	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
WFMZN9	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
WLAZQ8	1	8,9	17,21		28,28	X,X	12,13
	2	11,13	12,12		29,30	X,Y	11,11
	3	8,9	17,21		28,28	X,X	12,13
	4e	11,12	15,17		30,31.2	X,X	10,12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
WVEZDM	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]	14,14,[15.2]	[28],30,[30.2],31.2	X,X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
XRCD2B	1	8,9	17,21	13,14	28	X,X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X,X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
Y9UW92	1	8,9	17,21	13,14	28,28	X,X	12,13
	2	11,13	12,12	13,14	29,30	X,Y	11,11
	3	8,9	17,21	13,14	28,28	X,X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12

TABLE 2

WebCode	Item	D16S539	D18S51	D19S433	D21S11	Amelogenin	CSF1PO
YDL4RA	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]	[13],14,[15.2]	28,[30],30.2,[31.2]	X,[Y]	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
YXDV7E	1	8,9	17,21		28	X,X	12,13
	2	11,13	12		29,30	X,Y	11
	3	8,9	17,21		28	X,X	12,13
	4e	11,12,[13]	15,17,[18],[21]		[28],30,[30.2],31.2	X,[Y]	10,[11],12
	4sp	11,13	18,21		28,30.2	X,Y	11,12
YXU43V	1	8,9	17,21	13,14	28	X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X	12,13
	4e	11,12,[13]	15,17,[18],[21]	14,[15.2]	[28],30,[30.2],31.2	X	10,[11],12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
ZR362L	1	8,9	17,21	13,14	28	X,X	12,13
	2	11,13	12	13,14	29,30	X,Y	11
	3	8,9	17,21	13,14	28	X,X	12,13
	4e	11,12,13	15,17,18,21	13,14,15.2	28,30,30.2,31.2	X,Y	10,11,12
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	11,12
ZUTHQJ	1	8,9	17,21	13,14	28,28	X,X	
	2	11,13	12,12	13,14	29,30	X,Y	
	3	8,9	17,21	13,14	28,28	X,X	
	4e	11,12,[13]	15,17,[18],[20],[21]	[13],14,[15.2]	[28],30,[30.2],[31],31.2	X,X,[Y]	
	4sp	11,13	18,21	13,15.2	28,30.2	X,Y	

See Additional Comments (Table 8) for laboratory specific notations.

# STR Results - Part III

TABLE 3

WebCode	Item	FGA	Penta D	Penta E	TH01	TPOX	vWA
23HEFR	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,[12],17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18
27WEYC	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,21,22,26	9,10,12	5,10,12,17	7	8,11,12	14,16,18
	4sp	21,22	9	5,12	7	8	14,18
2GFJD3	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,[12],17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18
2M8X74	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,[21],[22],26			7,7	[8],11,12	[14],16,16,[18]
	4sp	21,22			7,7	8,8	14,18
2NW3TV	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,[21],[22],26			7	[8],11,12	[14],16,[18]
	4sp	21,22			7	8	14,18
2TTQ8H	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,[12],17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18
2Z8WKZ	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,[21],[22],26			7	8,11,12	[14],16,[18]
	4sp	21,22			7	8	14,18
32ECQK	1	26,27	-	-	7	7,10	17,20
	2	21,23	-	-	6,9.3	8,11	15
	3	26,27	-	-	7	7,10	17,20
	4e	20,21,22,26	-	-	7	8,11,12	14,16,18
	4sp	21,22	-	-	7	8	14,18
3Q23B9	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,[21],[22],26			7	[8],11,12	[14],16,[18]
	4sp	21,22			7	8	14,18

TABLE 3

WebCode	Item	FGA	Penta D	Penta E	TH01	TPOX	vWA
3VUAQV	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,26			7,7	11,12	16,16
	4sp	21,22			7,7	8,8	14,18
4BG77V	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,26	10,12	10,17	7	[8],11,12	16
	4sp	21,22	9	5,12	7	8	14,18
4RRQ23	1	26,27	-	-	7,7	7,10	17,20
	2	21,23	-	-	6,9.3	8,11	15,15
	3	26,27	-	-	7,7	7,10	17,20
	4e	20,[21],[22],26	-	-	7,7	[8],11,12	[14],16
	4sp	21,22	-	-	7,7	8,8	14,18
6L7YML	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	10,17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18
6QUXPF	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,[21],[22],26			7,7	[8],11,12	[14],16,16,[18]
	4sp	21,22			7,7	8,8	14,18
6R99VZ	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,21,22,26	9,10,12	10,17	7	8,11,12	14,16
	4sp	21,22	9	5,12	7	8	14,18
6R9D73	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,[21],[22],26			7,7	[8],11,12	[14],16,16,[18]
	4sp	21,22			7,7	8,8	14,18
6V8HW2	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,[21],[22],26			7	[8],11,12	[14],16,[18]
	4sp	21,22			7	8	14,18
7AYPFV	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,26			7	11,12	16
	4sp	21,22			7	8	14,18
7BAQ2U	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,26			7,7	11,12	16,16
	4sp	21,22			7,7	8,8	14,18

TABLE 3

WebCode	Item	FGA	Penta D	Penta E	TH01	TPOX	vWA
7GRBRM	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,21,22,26			7	8,11,12	14,16,18
	4sp	21,22			7	8	14,18
7UTDUW	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,[12],17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18
82GRVF	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,21,22,26			7	8,11,12	14,16,18
	4sp	21,22			7	8	14,18
84E3ZA	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,17	7	[8],11,12	[14],16,18
	4sp	21,22	9	5,12	7	8	14,18
84XL92	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,[12],17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18
8BLRFF	1	26,27	9,11	8,17	7,7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15,15
	3	26,27	9,11	8,17	7,7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,[12],17	7,7	[8],11,12	[14],16,[18]
	4sp	21,22	9,9	5,12	7,7	8,8	14,18
8KFRXE	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,21,22,26			7	8,11,12	14,16,18
	4sp	21,22			7,7	8,8	14,18
8NDHXX	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,21,22,26			7	8,11,12	14,16,18
	4sp	21,22			7,7	8,8	14,18
8VUYJG	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,21,22,26			7	8,11,12	14,16,18
	4sp	21,22			7	8	14,18
94KYJQ	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,26			7,7	11,12	16,16
	4sp	21,22			7,7	8,8	14,18

TABLE 3

WebCode	Item	FGA	Penta D	Penta E	TH01	TPOX	vWA
97Y6E9	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,[21],[22],26			7,7	[8],11,12	[14],16,16,[18]
	4sp	21,22			7,7	8,8	14,18
9C2G9K	1	26,27	-	-	7,7	7,10	17,20
	2	21,23	-	-	6,9.3	8,11	15,15
	3	26,27	-	-	7,7	7,10	17,20
	4e	20,[21],[22],26	-	-	7,7	[8],11,12	[14],16,[18]
	4sp	21,22	-	-	7,7	8,8	14,18
9KFAQV	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,[21],[22],26			7,7	[8],11,12	[14],16,[18]
	4sp	21,22			7,7	8,8	14,18
9Q8CY2	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,21,22,26	9,10,12	5,10,17	7	8,11,12	14,16
	4sp	21,22	9	5,12	7	8	14,18
9RWNFU	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,[21],[22],26			7	[8],11,12	[14],16,[18]
	4sp	21,22			7	8	14,18
A934GE	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[22],26	[9],10,12	10,17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18
ANL8DF	1	26,27	9,11	8,17	7,7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15,15
	3	26,27	9,11	8,17	7,7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,[12],17	7,7	[8],11,12	[14],16,[18]
	4sp	21,22	9,9	5,12	7,7	8,8	14,18
AT4HFQ	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,[21,22],26			7	8,11,12	[14],16,[18]
	4sp	21,22			7	8	14,18
B2D4GR	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,21,22,26	9,10,12	5,10,12,17	7	8,11,12	14,16,18
	4sp	21,22	9	5,12	7	8	14,18
B7G8VE	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,21,22,26			7	8,11,12	14,16,18
	4sp	21,22			7	8	14,18



TABLE 3

WebCode	Item	FGA	Penta D	Penta E	TH01	TPOX	vWA
BF74QD	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,21,22,26			7	8,11,12	14,16,18
	4sp	21,22			7	8	14,18
BN8ATV	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,[21],[22],26			7	[8],11,12	[14],16,[18]
	4sp	21,22			7	8	14,18
BNQVKL	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,26			7,7	11,12	16,16
	4sp	21,22			7,7	8,8	14,18
BPKPCN	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,[21],[22],26			7	[8],11,12	[14],16,[18]
	4sp	21,22			7	8	14,18
BPZALZ	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,[12],17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18
C7WUYE	1	26,27	-	-	7	7,10	17,20
	2	21,23	-	-	6,9.3	8,11	15
	3	26,27	-	-	7	7,10	17,20
	4e	20,21,22,26	-	-	7	8,11,12	14,16,18
	4sp	21,22	-	-	7	8	14,18
C9EKMQ	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,[21],[22],26			7,7	[8],11,12	[14],16,16,[18]
	4sp	21,22			7,7	8,8	14,18
CJUNLA	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,[21],[22],26			7	[8],11,12	[14],16,[18]
	4sp	21,22			7,7	8,8	14,18
CQRHF2	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,21,22,26			7	8,11,12	14,16,18
	4sp	21,22			7	8	14,18
CWCF4P	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,[12],17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18

TABLE 3

WebCode	Item	FGA	Penta D	Penta E	TH01	TPOX	vWA
D3GU6K	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,21,22,26			7,7	8,11,12	14,16,18
	4sp	21,22			7,7	8,8	14,18
D9TQ4T	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,21,26	9,10,12	5,10,17	7	8,11,12	14,16
	4sp	21,22	9	5,12	7	8	14,18
DBR3LL	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,[21,22],26			7	[8],11,12	[14],16,[18]
	4sp	21,22			7	8	14,18
DCKY8A	1	26,27	-	-	7	7,10	17,20
	2	21,23	-	-	6,9.3	8,11	15
	3	26,27	-	-	7	7,10	17,20
	4e	20,21,22,26	-	-	7	8,11,12	14,16,18
	4sp	21,22	-	-	7	8	14,18
E7ED8J	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,21,22,26			7,7	8,11,12	14,16,18
	4sp	21,22			7,7	8,8	14,18
EF6898	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,21,22,26	9,10,12	5,10,12,17	7	8,11,12	14,16,18
	4sp	21,22	9	5,12	7	8	14,18
EKUMMT	1	26,27			7		17,20
	2	21,23			6,9.3		15
	3	26,27			7		17,20
	4e	[20],21,22,[26]			7		14,[16],18
	4sp	21,22			7		14,18
EMFKUJ	1	26,27	-	-	7,7	7,10	17,20
	2	21,23	-	-	6,9.3	8,11	15,15
	3	26,27	-	-	7,7	7,10	17,20
	4	20,21,22,26	-	-	7	8,11,12	14,16,18
ENUWMM	1	26,27	9,11	8,17	7,7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,[21],[22],26			7,7	[8],11,12	[14],16,16,[18]
	4sp	21,22			7,7	8,8	14,18
F3XJUJ	1	26,27			7,7		17,20
	2	21,23			6,9.3		15,15
	3	26,27			7,7		17,20
	4e	20,21,22,26			7,7		[14],16,[18]
	4sp	21,22			7,7		14,18

TABLE 3

WebCode	Item	FGA	Penta D	Penta E	TH01	TPOX	vWA
F9HGKR	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,[21],[22],26			7,7	[8],11,12	[14],16,16,[18]
	4sp	21,22			7,7	8,8	14,18
FB3ENN	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,21,22,26			7	8,11,12	14,16,18
	4sp	21,22			7	8	14,18
FD6P9P	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,[21],[22],26			7	[8],11,12	[14],16,[18]
	4sp	21,22			7	8	14,18
FLARZF	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,21,22,26			7	8,11,12	14,16,18
	4sp	21,22			7	8	14,18
GB6KLW	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,21,22,26	9,10,12	5,10,12,17	7	8,11,12	14,16,18
	4sp	21,22	9	5,12	7	8	14,18
GBXQDM	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,21,22,26			7	8,11,12	[14],16,[18]
	4sp	21,22			7	8	14,18
GEMUJ2	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,[12],17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18
GRKZGD	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,26			7,7	11,12	16,16
	4sp	21,22			7,7	8,8	14,18
GRKZJX	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,[21],[22],26			7,7	[8],11,12	[14],16,16,[18]
	4sp	21,22			7,7	8,8	14,18
H2TUB6	1	26,27	-	-	7,7	7,10	17,20
	2	21,23	-	-	6,9.3	8,11	15,15
	3	26,27	-	-	7,7	7,10	17,20
	4e	20,[21],[22],26	-	-	7,7	[8],11,12	[14],16,16,[18]
	4sp	21,22	-	-	7,7	8,8	14,18

TABLE 3

WebCode	Item	FGA	Penta D	Penta E	TH01	TPOX	vWA
H7J4L4	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,[21],[22],26			7,7	[8],11,12	16,16,[18]
	4sp	21,22			7,7	8,8	14,18
H7YRHN	1	26,27	-	-	7,7	7,10	17,20
	2	21,23	-	-	6,9.3	8,11	15,15
	3	26,27	-	-	7,7	7,10	17,20
	4e	20,[21],[22],26	-	-	7,7	[8],11,12	[14],16
	4sp	21,22	-	-	7,7	8,8	14,18
HDF6K4	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,21,22,26			7,7	8,11,12	[14],16,16,[18]
	4sp	21,22			7,7	8,8	14,18
HE49PP	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,26	9,10,12	5,10,12,17	7	8,11,12	16
	4sp	21,22	9	5,12	7	8	14,18
HLUW3E	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4	20,21,22,26	9,10,12	5,10,12,17	7	8,11,12	14,16,18
HZWE2U	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,[21],[22],26			7	[8],11,12	[14],16,[18]
	4sp	21,22			7	8	14,18
JGRM2C	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,21,22,26			7,7	8,11,12	14,16,18
	4sp	21,22			7,7	8,8	14,18
JV6DRT	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,26	10,12	10,17	7	11,12	16
	4sp	21,22	9	5,12	7	8	14,18
JX6VJT	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,21,22,26	9,10,12	5,10,12,17	7	8,11,12	14,16,18
	4sp	21,22	9	5,12	7	8	14,18
K7BYZB	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,[21],[22],26			7	[8],11,12	[14],16,[18]
	4sp	21,22			7	8	14,18

TABLE 3

WebCode	Item	FGA	Penta D	Penta E	TH01	TPOX	vWA
KBK4QQ	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,21,22,26	9,10,12	5,10,12,17	7	8,11,12	14,16,18
	4sp	21,22	9	5,12	7	8	14,18
L6GL4B	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,[21],[22],26			7	[8],11,12	[14],16,[18]
	4sp	21,22			7	8	14,18
LC3EFB	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,[21],[22],26			7	[8],11,12	[14],16,[18]
	4sp	21,22			7	8	14,18
LDCJTY	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],26	[9],10,12	[5],10,[12],17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18
MBTAU6	1	26,27					17,20
	2	21,23					15,15
	3	26,27					17,20
	4e	20,21,22,26					14,16,18
	4sp	21,22					14,18
MC9G4T	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,[12],17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18
MJQ2ZD	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,[21],[22],26			7,7	8,11,12	[14],16,[18]
	4sp	21,22			7,7	8,8	14,18
MRD8N6	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,21,22,26			7	8,11,12	14,16,18
	4sp	21,22			7	8	14,18
N2CLT4	1	26,27			7,7		17,20
	2	21,23			6,9.3		15,15
	3	26,27			7,7		17,20
	4e	20,26			7,7		16,16
	4sp	21,22			7,7		14,18
N2CUPV	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,26	[9],10,12	[5],10,[12],17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18

TABLE 3

WebCode	Item	FGA	Penta D	Penta E	TH01	TPOX	vWA
NHHYER	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,26	9,10,12	5,10,12,17	7	8,11,12	16
	4sp	21,22	9	5,12	7	8	14,18
NW6PMF	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,21,22,26			7	8,11,12	14,16,18
	4sp	21,22			7,7	8,8	14,18
P6HVZY	1	26,27	9,11	8,17	7,7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15,15
	3	26,27	9,11	8,17	7,7	7,10	17,20
	4e	20,21,22,26	9,10,12	5,10,12,17	7,7	8,11,12	14,16,18
	4sp	21,22	9,9	5,12	7,7	8,8	14,18
PE6WG9	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,26			7,7	11,12	16,16
	4sp	21,22			7,7	8,8	14,18
PEB3ZH	1	26,27	-	-	7	7,10	17,20
	2	21,23	-	-	6,9.3	8,11	15
	3	26,27	-	-	7	7,10	17,20
	4e	20,[21],26	-	-	7	8,11,12	14,16,[18]
	4sp	21,22	-	-	7	8	14,18
PT8F4R	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,[12],17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18
Q9FR86	1	26,27			7,7		17,20
	2	21,23			6,9.3		15,15
	3	26,27			7,7		17,20
	4e	20,[21],[22],26			7,7		[14],16,[18]
	4sp	21,22			7,7		14,18
QBJMTT	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,[12],17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18
QBM8HG	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,[12],17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18
QZ9RZN	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,[12],17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18

TABLE 3

WebCode	Item	FGA	Penta D	Penta E	TH01	TPOX	vWA
QZP7GY	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,[12],17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18
R3LW4C	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,[21],[22],26			7,7	[8],11,12	[14],16,[18]
	4sp	21,22			7,7	8,8	14,18
R8GW8Y	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,26			7,7	11,12	16,16
	4sp	21,22			7,7	8,8	14,18
RDHM8K	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,[12],17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18
RFR6PZ	1	26,27	-	-	7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27	-	-	7	7,10	17,20
	4e	20,21,22,26	-	-	7	8,11,12	14,16,18
	4sp	21,22	-	-	7	8	14,18
RM9TDB	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,[21],[22],26			7,7	8,11,12	[14],16,[18]
	4sp	21,22			7,7	8,8	14,18
RUE9HQ	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,[21],[22],26			7,7	[8],11,12	[14],16,16,[18]
	4sp	21,22			7,7	8,8	14,18
RUUP9D	1	26,27	N/A	N/A	7,7	7,10	17,20
	2	21,23	N/A	N/A	6,9.3	8,11	15,15
	3	26,27	N/A	N/A	7,7	7,10	17,20
	4e	20,[21],[22],26	N/A	N/A	7,7	[8],11,12	[14],16,[18]
	4sp	21,22	N/A	N/A	7,7	8,8	14,18
RW3NL8	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,[21],[22],26			7	[8],11,12	[14],16,[18]
	4sp	21,22			7	8	14,18
RYBXTW	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,[12],17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18

TABLE 3

WebCode	Item	FGA	Penta D	Penta E	TH01	TPOX	vWA
TBYAG2	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,26			7,7	11,12	16,16
	4sp	21,22			7,7	8,8	14,18
TGMWK8	1	26,27	-	-	7,7	7,10	17,20
	2	21,23	-	-	6,9.3	8,11	15,15
	3	26,27	-	-	7,7	7,10	17,20
	4e	20,21,22,26	-	-	7,7	8,11,12	14,16,18
	4sp	21,22	-	-	7,7	8,8	14,18
U47RDA	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,21,22,26			7	8,11,12	14,16,18
	4sp	21,22			7,7	8,8	14,18
U7K9W8	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,[21],[22],26			7,7	[8],11,12	[14],16,16,[18]
	4sp	21,22			7,7	8,8	14,18
UBGTY7	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,[21],[22],26			7	8,11,12	[14],16,[18]
	4sp	21,22			7	8	14,18
UWBTZ8	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,21,22,26			7,7	8,11,12	14,16,18
	4sp	21,22			7,7	8,8	14,18
VDFE7A	1	26,27			7		17,20
	2	21,23			6,9.3		15
	3	26,27			7		17,20
	4e	20,[21],[22],26			7		16
	4sp	21,22			7		14,18
VKTKNY	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,[21],[22],26			7	[8],11,12	[14],16,[18]
	4sp	21,22			7	8	14,18
VLLHRY	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,21,22,26			7,7	8,11,12	14,16,18
	4sp	21,22			7,7	8,8	14,18
VM8VRX	1	26,27			7,7		17,20
	2	21,23			6,9.3		15,15
	3	26,27			7,7		17,20
	4e	20,[21],[22],26			7		[14],16,[18]
	4sp	21,22			7		14,18



TABLE 3

WebCode	Item	FGA	Penta D	Penta E	TH01	TPOX	vWA
VNGYLA	1	26,27	9,11	8,17	7,7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,21,26			7,7	8,11,12	14,16,18
	4sp	21,22			7,7	8,8	14,18
WEX2TU	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,21,22,26			7	8,11,12	14,16,18
	4sp	21,22			7	8	14,18
WFMZN9	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,21,22,26			7	8,11,12	14,16,18
	4sp	21,22			7	8	14,18
WLAZQ8	1	26,27	9,11	8,17	7,7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,26			7,7	11,12	16,16
	4sp	21,22			7,7	8,8	14,18
WVEZDM	1	26,27	-	-	7,7	7,10	17,20
	2	21,23	-	-	6,9.3	8,11	15,15
	3	26,27	-	-	7,7	7,10	17,20
	4e	20,[21],[22],26	-	-	7,7	[8],11,12	[14],16,16,[18]
	4sp	21,22	-	-	7,7	8,8	14,18
XRCD2B	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,21,22,26			7	8,11,12	14,16,18
	4sp	21,22			7	8	14,18
Y9UW92	1	26,27			7,7	7,10	17,20
	2	21,23			6,9.3	8,11	15,15
	3	26,27			7,7	7,10	17,20
	4e	20,21,22,26			7,7	8,11,12	14,16,18
	4sp	21,22			7,7	8,8	14,18
YDL4RA	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,[21],[22],26			7	[8],11,12	[14],16,[18]
	4sp	21,22			7	8	14,18
YXDV7E	1	26,27	9,11	8,17	7	7,10	17,20
	2	21,23	10,14	7,17	6,9.3	8,11	15
	3	26,27	9,11	8,17	7	7,10	17,20
	4e	20,[21],[22],26	[9],10,12	[5],10,[12],17	7	[8],11,12	[14],16,[18]
	4sp	21,22	9	5,12	7	8	14,18
YXU43V	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,[21],[22],26			7	[8],11,12	[14],16,[18]
	4sp	21,22			7	8	14,18

TABLE 3

WebCode	Item	FGA	Penta D	Penta E	TH01	TPOX	vWA
ZR362L	1	26,27			7	7,10	17,20
	2	21,23			6,9.3	8,11	15
	3	26,27			7	7,10	17,20
	4e	20,21,22,26			7	8,11,12	14,16,18
	4sp	21,22			7	8	14,18
ZUTHQJ	1	26,27			7,7		17,20
	2	21,23			6,9.3		15,15
	3	26,27			7,7		17,20
	4e	20,[21],[22],26			7,7		[14],16,[17],[18]
	4sp	21,22			7,7		14,18

See Additional Comments (Table 8) for laboratory specific notations.

# Amplification Kit(s) & YSTR Results - Part I

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
27WEYC	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
2GFJD3	PowerPlex®Y								
	2	14	11,14	12	28	23	11	13	13
	4	13	11,17	12	30	24	10	11	13
2M8X74	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
2TTQ8H	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
2Z8WKZ	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
32ECQK	Yfiler®								
	1	-	-	-	-	-	-	-	-
	2	14	11,14	12	28	23	11	13	13
	3	-	-	-	-	-	-	-	-
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
3Q23B9	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
3VUAQV	PowerPlex® Y23								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
4BG77V	PowerPlex®Y								
	2	14	11,14	12	28	23	11	13	13
	4	13	11,17	12	30	24	10	11	13
6QUXPF	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
6R9D73	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
6V8HW2	4sp	13	11,17	12	30	24	10	11	13
	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
7BAQ2U	4sp	13	11,17	12	30	24	10	11	13
	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
7GRBRM	4sp	13	11,17	12	30	24	10	11	13
	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
7UTDUW	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
	PowerPlex®Y								
84E3ZA	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
8KFRXE	2	14	11,14	12	28	23	11	13	13
	4sp	13	11,17	12	30	24	10	11	13
	PowerPlex®Y								
8NDHXX	2	14	11,14	12	28	23	11	13	13
	4sp	13	11,17	12	30	24	10	11	13
	PowerPlex®Y								
94KYJQ	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
9KFAQV	Yfiler®								
	1	NA	NA	NA	NA	NA	NA	NA	NA
	2	14	11,14	12	28	23	11	13	13
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
9Q8CY2	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17		30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
AT4HFQ	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
B2D4GR	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
BF74QD	Yfiler®								
	1	-	-	-	-	-	-	-	-
	2	14	11,14	12	28	23	11	13	13
	3	-	-	-	-	-	-	-	-
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
BN8ATV	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
BNQVKL	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4sp	13	11,17	12	30	24	10	11	13
BPZALZ	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
C7WUYE	Yfiler®								
	1	-	-	-	-	-	-	-	-
	2	14	11,14	12	28	23	11	13	13
	3	-	-	-	-	-	-	-	-
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
C9EKMQ	Yfiler®								
	1	NA	NA	NA	NA	NA	NA	NA	NA
	2	14	11-14	12	28	23	11	13	13
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	13	11-17	12	30	24	10	11	13
	4sp	13	11-17	12	30	24	10	11	13
CQRHF2	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
CWCF4P	PowerPlex®Y								
	2	14	11,14	12	28	23	11	13	13
	4	13	11,17	12	30	24	10	11	13

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
D3GU6K	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	3	-	-	-	-	-	-	-	-
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
DBR3LL	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
DCKY8A	Yfiler®								
	1	-	-	-	-	-	-	-	-
	2	14	11,14	12	28	23	11	13	13
	3	-	-	-	-	-	-	-	-
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
EKUMMT	in-house kit								
	2	14	11,14	12	28	23	11	13	13
ENUWMM	PowerPlex®Y								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
F9HGKR	Yfiler®								
	2	14	11-14	12	28	23	11	13	13
	4e	13	11-17	12	30	24	10	11	13
	4sp	13	11-17	12	30	24	10	11	13
FB3ENN	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
FD6P9P	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
FLARZF	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
GB6KLW	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
GBXQDM	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
GRKZGD									
	1	-	-	-	-	-	-	-	-
	2	14	11,14	12	28	23	11	13	13
	3	-	-	-	-	-	-	-	-
	4	13	11,17	12	30	24	10	11	13
HE49PP	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4sp	13	11,17	12	30	24	10	11	13
HLUW3E	Yfiler®								
	1	-	-	-	-	-	-	-	-
	2	14	11,14	12	28	23	11	13	13
	3	-	-	-	-	-	-	-	-
	4	13	11,17	12	30	24	10	11	13
HZWE2U	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
JGRM2C	PowerPlex®Y								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
JX6VJT	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
KBK4QQ	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
MBTAU6	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4sp	13	11,17	12	30	24	10	11	13
MC9G4T	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
NW6PMF	PowerPlex®Y								
	2	14	11,14	12	28	23	11	13	13
	4sp	13	11,17	12	30	24	10	11	13
PE6WG9	PowerPlex®Y								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
PT8F4R	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
QBJMTT	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
QBM8HG	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
QZ9RZN	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
R8GW8Y	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4sp	13	11,17	12	30	24	10	11	13
RFR6PZ	Yfiler®								
	1	-	-	-	-	-	-	-	-
	2	14	11,14	12	28	23	11	13	13
	3	-	-	-	-	-	-	-	-
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
RM9TDB	PowerPlex®Y								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
TGMWK8	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	-	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
U47RDA	PowerPlex®Y								
	2	14	11,14	12	28	23	11	13	13
	4sp	13	11,17	12	30	24	10	11	13
U7K9W8	Yfiler®								
	1	NA	NA	NA	NA	NA	NA	NA	NA
	2	14	11,14	12	28	23	11	13	13
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13



TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
UWBTZ8	Yfiler®								
	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2	14	11,14	12	28	23	11	13	13
	3	-	-	-	-	-	-	-	-
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
VKTKNY	Yfiler®								
	1	NA	NA	NA	NA	NA	NA	NA	NA
	2	14	11,14	12	28	23	11	13	13
	3	NA	NA	NA	NA	NA	NA	NA	NA
	4e	13	11,17	12	30	24	10	11	13
	4sp	13	11,17	12	30	24	10	11	13
VLLHRY	PowerPlex®Y								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
VM8VRX	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4sp	13	11,17	12	30	24	10	11	13
VNGYLA	PowerPlex®Y								
	2	14	11,14	12	28	23	11	13	13
	4e	13	11,17	12	30	24	10	11	13
WEX2TU	Yfiler®								
	2	14	13,15	14	31	23	10	11	12
	3	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
WFMZN9	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	4sp	13	11,17	12	30	24	10	11	13
WLAZQ8	PowerPlex®Y								
	2	14	11,14	12	28	23	11	13	13
XRCD2B	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
YDL4RA	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
ZR362L	Yfiler®								
	2	14	11,14	12	28	23	11	13	13
	3	ND	ND	ND	ND	ND	ND	ND	ND
	4e	13	11,17	12	30	24	10	11	13

# YSTR Results - Part II

TABLE 5

WebCode	Item	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	Y GATA H4
27WEYC	2	15	12	11	19	15	17	24	11
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
2GFJD3	2	15	12	11					
	4	14	10	12					
2M8X74	2	15	12	11	19	15	17	24	11
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
2TTQ8H	2	15	12	11	19	15	17	24	11
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
2Z8WKZ	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
32ECQK	1	-	-	-	-	-	-	-	-
	2	15	12	11	19	15	17	24	11
	3	-	-	-	-	-	-	-	-
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
3Q23B9	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
3VUAQV	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
4BG77V	2	15	12	11					
	4	14	10	12					
6QUXPF	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
6R9D73	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
6V8HW2	2	15	12	11	19	15	17	24	11
	4sp	14	10	12	20	15	16	21	9
7BAQ2U	2	15	12	11	19	15	17	24	11
	4sp	14	10	12	20	15	16	21	9
7GRBRM	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9

TABLE 5

WebCode	Item	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	Y GATA H4
7UTDUW	2	15	12	11					
	4	14	10	12					
84E3ZA	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
8KFRXE	2	15	12	11					
	4sp	14	10	12					
8NDHXX	2	15	12	11					
	4sp	14	10	12					
94KYJQ	2	15	12	11					
	4e	14	10	12					
	4sp	14	10	12					
9KFAQV	1	NA	NA	NA	NA	NA	NA	NA	NA
	2	15	12	11	19	15	17	24	11
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
9Q8CY2	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
AT4HFQ	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
B2D4GR	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
BF74QD	1	-	-	-	-	-	-	-	-
	2	15	12	11	19	15	17	24	11
	3	-	-	-	-	-	-	-	-
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
BN8ATV	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
BNQVKL	2	15	12	11	19	15	17	24	11
	4sp	14	10	12	20	15	16	21	9
BPZALZ	2	15	12	11	19	15	17	24	11
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
C7WUYE	1	-	-	-	-	-	-	-	-
	2	15	12	11	19	15	17	24	11
	3	-	-	-	-	-	-	-	-
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9

TABLE 5

WebCode	Item	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	Y GATA H4
C9EKMQ	1	NA	NA	NA	NA	NA	NA	NA	NA
	2	15	12	11	19	15	17	24	11
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
CQRHF2	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
CWCF4P	2	15	12	11					
	4	14	10	12					
D3GU6K	2	15	12	11	19	15	17	24	11
	3	-	-	-	-	-	-	-	-
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
DBR3LL	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
DCKY8A	1	-	-	-	-	-	-	-	-
	2	15	12	11	19	15	17	24	11
	3	-	-	-	-	-	-	-	-
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
EKUMMT	2	15	12	11	19	15	17	24	11
ENUWMM	2	15	12	11					
	4e	14	10	12					
	4sp	14	10	12					
F9HGKR	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
FB3ENN	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
FD6P9P	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
FLARZF	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
GB6KLW	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
GBXQDM	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9

TABLE 5

WebCode	Item	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	Y GATA H4
GRKZGD	1	-	-	-	-	-	-	-	-
	2	15	12	11	19	15	17	24	11
	3	-	-	-	-	-	-	-	-
	4	14	10	12	20	15	16	21	9
HE49PP	2	15	12	11	19	15	17	24	11
	4sp	14	10	12	20	15	16	21	9
HLUW3E	1	-	-	-	-	-	-	-	-
	2	15	12	11	19	15	17	24	11
	3	-	-	-	-	-	-	-	-
	4	14	10	12	20	15	16	21	9
HZWE2U	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
JGRM2C	2	15	12	11					
	4e	14	10	12					
	4sp	14	10	12					
JX6VJT	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
KBK4QQ	2	15	12	11	19	15	17	24	11
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
MBTAU6	2	15	12	11	19	15	17	24	11
	4sp	14	10	12	20	15	16	21	9
MC9G4T	2	15	12	11	19	15	17	24	11
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
NW6PMF	2	15	12	11					
	4sp	14	10	12					
PE6WG9	2	15	12	11					
	4e	14	10	12					
	4sp	14	10	12					
PT8F4R	2	15	12	11	19	15	17	24	11
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
QBJMTT	2	15	12	11	19	15	17	24	11
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
QBM8HG	2	15	12	11	19	15	17	24	11
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9

TABLE 5

WebCode	Item	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	Y GATA H4
QZ9RZN	2	15	12	11	19	15	17	24	11
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
R8GW8Y	2	15	12	11	19	15	17	24	11
	4sp	14	10	12	20	15	16	21	9
RFR6PZ	1	-	-	-	-	-	-	-	-
	2	15	12	11	19	15	17	24	11
	3	-	-	-	-	-	-	-	-
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
RM9TDB	2	15	12	11					
	4e	14	10	12					
	4sp	14	10	12					
TGMWK8	2	15	12	11	19	15	17	24	11
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
U47RDA	2	15	12	11					
	4sp	14	10	12					
U7K9W8	1	NA	NA	NA	NA	NA	NA	NA	NA
	2	15	12	11	19	15	17	24	11
	3	NR	NR	NR	NR	NR	NR	NR	NR
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
UWBTZ8	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2	15	12	11	19	15	17	24	11
	3	-	-	-	-	-	-	-	-
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
VKTKNY	1	NA	NA	NA	NA	NA	NA	NA	NA
	2	15	21	11	19	15	17	24	11
	3	NA	NA	NA	NA	NA	NA	NA	NA
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9
VLLHRY	2	15	12	11					
	4e	14	10	12					
	4sp	14	10	12					
VM8VRX	2	15	12	11	19	15	17	24	11
	4sp	14	10	12	20	15	16	21	9
VNGYLA	2	15	12	11					
	4e	14	10	12					
	4sp	14	10	12					
WEX2TU	2	15	9	12	20	17	17	23	11
	3	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9

TABLE 5

WebCode	Item	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	Y GATA H4
WFMZN9	2	15	12	11	19	15	17	24	11
	4sp	14	10	12	20	15	16	21	9
WLAZQ8	2	15	12	11					
	4	14	10	12					
XRCD2B	2	15	12	11	19	15	17	24	11
	4sp	14	10	12	20	15	16	21	9
YDL4RA	2	15	12	11	19	15	17	24	11
	4sp	14	10	12	20	15	16	21	9
ZR362L	2	15	12	11	19	15	17	24	11
	3	ND	ND	ND	ND	ND	ND	ND	ND
	4e	14	10	12	20	15	16	21	9
	4sp	14	10	12	20	15	16	21	9

# Additional DNA Results

TABLE 6

Locus	WebCode	Item 1	Item 2	Item 3	Item 4	Item 4e	Item 4sp
D10S1248	EKUMMT	14,15	13	14,15		14,17	14,17
	F3XJUU	14,15	13,13	14,15		14,[17]	14,17
	GRKZGD	14,15	13,13	14,15		14,14	14,17
	HLUW3E	14,15	13	14,15	14,17		
	N2CLT4	14,15	13,13	14,15		14,14	14,17
	VDFE7A	14,15	13	14,15		14	14,17
	VM8VRX	14,15	13,13	14,15		14,[17]	14,17
	ZUTHQJ	14,15	13,13	14,15		14,[16],[17]	14,17
D12S391	8BLRFF	16,19	18,21	16,19		19,21,(23)	20,23
	ANL8DF	16,19	18,21	16,19		19,[20],21,[23]	20,23
	EKUMMT	16,19	18,21	16,19		(19),20,(22),23	20,23
	F3XJUU	16,19	18,21	16,19		19,20,21,[23]	20,23
	GRKZGD	16,19	18,21	16,19		19,21	20,23
	HLUW3E	16,19	18,21	16,19	19,20,21,23		
	N2CLT4	16,19	18,21	16,19		19,21	20,23
	P6HVZY	16,19	18,21	16,19		19,21,23	20,23
	VDFE7A	16,19	18,21	16,19		19,[20],21,[23]	20,23
	VM8VRX	16,19	18,21	16,19		19,[20],21,[23]	20,23
	ZUTHQJ	16,19	18,21	16,19		19,[20],21,[23],[24]	20,23
	D1S1656	8BLRFF	14,15	13,17.3	14,15		15,(16),17.3
ANL8DF		14,15	13,17.3	14,15		15,[16],17.3	16,17.3
EKUMMT		14,15	13,17.3	14,15		(15),16,17.3	16,17.3
F3XJUU		14,15	13,17.3	14,15		15,[16],17.3	16,17.3
GRKZGD		14,15	13,17.3	14,15		15,17.3	16,17.3
HLUW3E		14,15	13,17.3	14,15	15,16,17.3		
N2CLT4		14,15	13,17.3	14,15		15,17.3	16,17.3
P6HVZY		14,15	13,17.3	14,15		15,16,17.3	16,17.3
VDFE7A		14,15	13,17.3	14,15		15,[16],17.3	16,17.3
VM8VRX		14,15	13,17.3	14,15		15,17.3	16,17.3
ZUTHQJ		14,15	13,17.3	14,15		15,[16],17.3	16,17.3
D22S1045		EKUMMT	15	15	15		12,15,(16),17
	GRKZGD	15,15	15,15	15,15		12,17	15,17
	HLUW3E	15	15	15	12,15,17,[18]		
	N2CLT4	15,15	15,15	15,15		12,17	15,17
	VDFE7A	15	15	15		12,17	15,17
	VM8VRX	15,15	15,15	15		12,[15],17	15,17
	ZUTHQJ	15,15	15,15	15,15		12,[15],17,[18]	15,17
D22SS1045	F3XJUU	15,15	15,15	15,15		12,[15],17	15,17
D2S441	EKUMMT	12,13	14	12,13		10,11,(11.3)	10,11
	F3XJUU	12,13	14,14	12,13		10,[11],11.3	10,11
	GRKZGD	12,13	14,14	12,13		10,11.3	10,11



TABLE 6

Locus	WebCode	Item 1	Item 2	Item 3	Item 4	Item 4e	Item 4sp
D2S441 cont'd	HLUW3E	12,13	14	12,13	10,11,11.3		
	N2CLT4	12,13	14,14	12,13		10,11.3	10,11
	VDFE7A	12,13	14	12,13		10,[11],11.3	10,11
	VM8VRX	12,13	14,14	12,13		10,[11],11.3	10,11
	ZUTHQJ	12,13	14,14	12,13		10,[11],11.3	10,11
D6S1043	8BLRFF	18,20	12,15	18,20		11,14,(18)	13,18
	ANL8DF	18,20	12,15	18,20		11,[13],14,[18]	13,18
	P6HVZY	18,20	12,15	18,20		11,14,18	13,18
DYS391	GRKZGD	-	11	-		-	10
DYS481	EKUMMT		22				
	GRKZGD	-	22	-		-	25
	HLUW3E	-	22	-	25		
DYS533	EKUMMT		12				
	GRKZGD	-	12	-		-	10
	HLUW3E	-	12	-	10		
DYS549	EKUMMT		12				
	GRKZGD	-	12	-		-	11
	HLUW3E	-	12	-	11		
DYS570	EKUMMT		17				
	GRKZGD	-	17	-		-	20
	HLUW3E	-	17	-	20		
DYS576	EKUMMT		16				
	GRKZGD	-	16	-		-	21
	HLUW3E	-	16	-	[20],21		
DYS643	EKUMMT		10				
	GRKZGD	-	10	-		-	11
	HLUW3E	-	10	-	11		
SE33	F3XJUU	19,28.2	19,30.2	19,28.2		[21.2],23.2,33	21.2,23.2
	GRKZGD	19,28.2	19,30.2	19,28.2		23.2,(32.2-33.2)	21.2,23.2
	ZUTHQJ	19,28.2	19,30.2	19,28.2		[21.2],23.2,33	21.2,23.2
Y INDEL	GRKZGD	-	2	-		-	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
23HEFR	Yes	No	No	No	7UTDUW	Yes	No	No	No
27WEYC	Yes	No	No	No	82GRVF	Yes	No	No	No
2GFJD3	Yes	No	No	No	84E3ZA	Yes	No	No	No
2M8X74	Yes	No	No	No	84XL92	Yes	No	No	No
2NW3TV	Yes	No	No	No	8BLRFF	Yes	No	No	No
2TTQ8H	Yes	No	No	No	8KFRXE	Yes	No	No	No
2Z8WKZ	Yes	No	No	No	8NDHXX	Yes	No	No	No
32ECQK	Yes	No	No	No	8VUYJG	Yes	No	No	No
3Q23B9	Yes	No	No	No	94KYJQ	Yes	No	No	No
3VUAQV	Yes	No	No	No	97Y6E9	Yes	No	No	No
4BG77V	Yes	No	No	No	9C2G9K	Yes	No	No	No
4RRQ23	Yes	No	No	No	9KFAQV	Yes	No	No	No
6L7YML	Yes	No	No	No	9Q8CY2	Yes	No	No	No
6QUXPF	Yes	No	No	No	9RWNFU	Yes	No	No	No
6R99VZ	Yes	No	No	No	A934GE	Yes	No	No	No
6R9D73	Yes	No	No	No	ANL8DF	Yes	No	No	No
6V8HW2	Yes	No	No	No	AT4HFQ	Yes	No	No	No
7AYPFV	Yes	No	No	No	B2D4GR	Yes	No	No	No
7BAQ2U	Yes	No	No	No	B7G8VE	Yes	No	No	No
7GRBRM	Yes	No	No	No	BF74QD	Yes	No	No	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
BN8ATV	Yes	No	No	No	FLARZF	Yes	No	No	No
BNQVKL	Yes	No	No	No	GB6KLW	Yes	No	No	No
BPKPCN	Yes	No	No	No	GBXQDM	Yes	No	No	No
BPZALZ	Yes	No	No	No	GEMUJ2	Yes	No	No	No
C7WUYE	Yes	No	No	No	GRKZGD	Yes	No	No	No
C9EKMQ	Yes	No	No	No	GRKZJX	Yes	No	No	No
CJUNLA	Yes	No	No	No	H2TUB6	Yes	No	No	No
CQRHF2	Yes	No	No	No	H7J4L4	Yes	No	No	No
CWCF4P	Yes	No	No	No	H7YRHN	Yes	No	No	No
D3GU6K	Yes	No	No	No	HDF6K4	Yes	No	No	No
D9TQ4T	Yes	No	No	No	HE49PP	Yes	No	No	No
DBR3LL	Yes	No	No	No	HLUW3E	Yes	No	No	No
DCKY8A	Yes	No	No	No	HZWE2U	Yes	No	No	No
E7ED8J	Yes	No	No	No	JGRM2C				
EF6898	Yes	No	No	No	JV6DRT	Yes	No	No	No
EKUMMT	Yes	No	No	No	JX6VJT	Yes	No	No	No
EMFKUJ	Yes	No	No	No	K7BYZB	Yes	No	No	No
ENUWMM	Yes	No	No	No	KBK4QQ	Yes	No	No	No
F3XJUJ	Yes	No	No	No	L6GL4B	Yes	No	No	No
F9HGKR	Yes	No	No	No	LC3EFB	Yes	No	No	No
FB3ENN	Yes	No	No	No	LDCJTY	Yes	No	No	No
FD6P9P	Yes	No	No	No	MBTAU6	Yes	No	No	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
MC9G4T	Yes	No	No	No	RUUP9D	Yes	No	No	No
MJQ2ZD	Yes	No	No	No	RW3NL8	Yes	No	No	No
MRD8N6	Yes	No	No	No	RYBXTW	Yes	No	No	No
N2CLT4	Yes	No	No	No	TBYAG2	Yes	No	No	No
N2CUPV	Yes	No	No	No	TGMWK8	Yes	No	No	No
NHHYER	Yes	No	No	No	U47RDA	Yes	No	No	No
NW6PMF	Yes	No	No	No	U7K9W8	Yes	No	No	No
P6HVZY	Yes	No	No	No	UBGTY7	Yes	No	No	No
PE6WG9	Yes	No	No	No	UWBTZ8	Yes	No	No	No
PEB3ZH	Yes	No	No	No	VDFE7A	Yes	No	No	No
PT8F4R	Yes	No	No	No	VKTKNY	Yes	No	No	No
Q9FR86	Yes	No	No	No	VLLHRY	Yes	No	No	No
QBJMTT	Yes	No	No	No	VM8VRX	Yes	No	No	No
QBM8HG	Yes	No	No	No	VNGYLA	Yes	No	No	No
QZ9RZN	Yes	No	No	No	WEX2TU	Yes	No	No	No
QZP7GY	Yes	No	No	No	WFMZN9	Yes	No	No	No
R3LW4C	Yes	No	No	No	WLAZQ8	Yes	No	No	No
R8GW8Y	Yes	No	No	No	WVEZDM	Yes	No	No	No
RDHM8K	Yes	No	No	No	XRCD2B	Yes	No	No	No
RFR6PZ	Yes	No	No	No	Y9UW92	Yes	No	No	No
RM9TDB	Yes	No	No	No	YDL4RA	Yes	No	No	No
RUE9HQ	Yes	No	No	No	YXDV7E	Yes	No	No	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
YXU43V	Yes	No	No	No					
ZR362L	Yes	No	No	No					
ZUTHQJ	Yes	No	No	No					

Response Summary					Participants reporting DNA results: 131				
<p><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></p>									
		Victim (Item 1)			Suspect (Item 2)				
		Item 3	Item 4		Item 3	Item 4			
Responses	Yes	<b>130</b>	<b>0</b>		<b>0</b>	<b>0</b>			
	No	<b>0</b>	<b>130</b>		<b>130</b>	<b>130</b>			
	Inc	<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>			

Participants not reporting Interpretation results: 1

# Additional Comments

TABLE 8

WebCode	Additional Comments
27WEYC	NR = No Results
2M8X74	For Y-filer results, NR indicates sample analyzed but no results obtained. Cells left blank indicate sample was not analyzed with Y-filer.
2TTQ8H	NR = No Results
32ECQK	1. Item 1,2 and 4 were extracted using chelex extraction method. 2. Item 3 was extracted using Promega DNA IQ and run by Tecan Freedom Evo 150. 3. Item 1 to Item 4 were quantified using Applied Biosystem Quantifiler Human DNA Kit and carried out by Real-Time PCR 7500. 4. Item 1, 2, 3 and 4 were amplified using AmpFISTR Identifiler and Yfiler PCR Kit and performed electrophoresis by using Genetic Analyzer 3130xl. 5. Reagent blank, negative and positive control were carried out along with the analysis.
4BG77V	The DNA profile from the blood stain from the victim's shirt is identical to the DNA profile of the victim. The victim is not excluded as a DNA contributor to the blood stain on the shirt. The DNA mixture from the bed sheet were consistent with at least two contributors, a male and a female. The DNA profiles from the bed sheet were not consistent with the victim or the suspect. The victim and suspect are both excluded as contributors to the mixed stain obtained from the bed sheet.
94KYJQ	Item 4 epi fraction- major component of mixed DNA profile reported. Minor component consistent with the male DNA profile obtained in the sperm fraction of Item 4. Identifiler and Minifiler results obtained consistent for item 3 and item 4 epi and sp.
9C2G9K	CONCLUSION: 1- The DNA profile obtained from Item 3 matches the victim's DNA profile in all the Identifiler loci (16 loci). 2- The victim and the suspect could NOT be the contributors for the DNA profile obtained from Item 4 (when using the 16 Identifiler loci) where the sperm fraction was for unknown[sic] male person (unknown person No.1) and the epithelial fraction was for another unknown[sic] person (unknown person No.2).
9KFAQV	NA: Sample not analyzed with Y-Filer. Female sample and no results for male quant. NR: No results with Y-Filer.
BF74QD	1)Chelex extraction method was used to extract DNA from Item 1, 2, 3 and 4. 2) DNA quantitation was carried out using the Quantifiler Human DNA Quantification Kit with Applied Biosystems Real Time Polymerase Chain Reaction (PCR) 7500 System. 3) Amplification of STR (Short Tandem Repeat) Genetic Loci was carried out using the AmpFISTR Identifiler Plus PCR Amplification Kit. 4) Amplification of Y-STR (Short Tandem Repeat) Genetic Loci was carried out using the AmpFISTR Y-Filer PCR Amplification Kit. 5) Capillary electrophoresis was carried out using the Applied Biosystems 3130xl Genetic Analyzer with GeneMapper ID Software. 6) Reagent blank, positive control and negative control were carried out throughout the analysis.
BPZALZ	NR = No Results
D3GU6K	Results are a combination of Identifiler Plus and Minifiler.
DCKY8A	nice try, CTS.
E7ED8J	Results reported are those of a combination of Identifiler Plus and Minifiler.
EKUMMT	Y-STRs were typed on Item 2 for validation of an in-house kit.
ENUWMM	Items 1, 2, 3, and 4 were tested with ProfilerPlus and Cofiler. Items 1 and 2 were also tested with PowerPlex-16 Hot Start, therefore they have data for additional loci (Penta D and Penta E). Only Items 2, 4-epi, and 4-sp were tested with PowerPlex-Y.
F9HGKR	Item 1 was not analyzed for Y-STRs. No Y-STR profile was obtained from item 3.
GB6KLW	No male DNA detected for Item 1 and Item 3 using Plexor HY.

TABLE 8

WebCode	Additional Comments
GRKZGD	1. Participant's note concerning boxes (either with - or empty): box filled with a single dash (-) indicates that the related marker gave no allele for that item, empty box indicates that no experiment was performed on that marker. 2. (32.2-33.2) denotes the presence of a mid-allele between the alleles 32.2 and 33.2
HLUW3E	In each of the PowerY23 reactions performed on item 4, we saw a small peak at position 20 for DYS576. We are aware that this could be a stutterpeak from the 21 allele, but we are not used to seeing stutterpeaks of such intensity for DYS576. Therefore, in a routine investigation, we would also decide to call this allele as a possible (between brackets) variant. In our report regarding this sample, we would add a remark that we have seen an additional allele which could either be caused by the actual presence of a small amount of DNA from a second contributor or by an artefact of the reaction.
JGRM2C	Results were concordant over both autosomal profiling kits used.
JX6VJT	Y STR analysis not performed on samples that did not have Y quantitation values.
KBK4QQ	NR = No Results
MC9G4T	NR = No Results (see YSTR results)
MJQ2ZD	DNA consistent with having originated from the male contributor of the sperm fraction of Item 4 was also detected in the epithelial fraction of Item 4.
PE6WG9	A mixed DNA profile was obtained for the epithelial fraction of item 4. Assuming the presence of the male DNA profile obtained from the sperm fraction a female profile can be determined. This has been reported as the epithelial fraction profile.
PT8F4R	NR = No Results
QBJMTT	NR = No Results
QBM8HG	NR = no results
QZ9RZN	NR: No Results
RFR6PZ	Items 1, 2 and 3 were extracted by using organic extraction. Item 4 was extracted by using chelex extraction.
TBYAG2	Additional, minor alleles were detected in the epithelial fraction of Item 4 that were consistent with the DNA profile obtained from the sperm fraction of the stain.
TGMWK8	Results reported are a combination of Identifiler Plus and Minifiler.
UWBTZ8	Results reported are a combination of Identifiler Plus and Minifiler.
VKTKNY	The DNA detected in the sample from Item #3 is from at least one female individual. The victim (Item #1) is not excluded as the source of this DNA. The suspect, Item #2 is excluded as the source of the DNA detected in this sample, Item #3. The DNA detected in Item #4 appears to originate from at least 1 individual. The victim (Item #1) is excluded as the source of the DNA detected in this sample, Item #4. The suspect, Item #2 is excluded as the source of the DNA detected in Item #4.
VLLHRY	the epithelial fraction of item 4 was an approximately 1:1 mixture of DNA from likely 2 individuals. As references were not provided from either contributor, no mixture resolution has been carried out.
VM8VRX	The DNA-profile of the sperm fraction of item 4 shows some additional low peaks / minor alleles. These peaks / alleles are on stutter peak position or are matching the alleles of the DNA-profile of the epithelial fraction of item 4. These low peaks / minor alleles are not described on page 3 [Tables 1-3: Amplification Kit(s) & STR Results Parts I, II & III].
VNGYLA	(I) PP16 HS is only used on known samples in our lab or convicted offender samples. (II) Hematrace was conducted on Item 3A only, microscopic examination was done on Item 4A and a P30 test was also performed on Item 4A. Results are not reported in this test; however are contained in the case folder.

TABLE 8

WebCode	Additional Comments
WEX2TU	Item 1 was not amplified with Yfiler.
WLAZQ8	PowerPlex 16 Hot Start kit used only on known standards (Items 1 & 2).
Y9UW92	Results reported are a combination of Identifiler Plus and Minifiler.
ZR362L	1. DNA IQ System with Tecan EVO 150 and chelex extraction was used to extract DNA. 2. Real-Time PCR using the ABI Quantifiler Human DNA Quantification Kit was used to quantify extracted DNA. 4. AmpFISTR Identifiler Plus and YFiler PCR Kit was used for amplification. 5. Reagent blank, positive control and negative control were carried out along with the analysis. 6. ND - Not Detected. 7. Y-STR only performed on Item 2, Item 3 and Item 4. 8. All samples were performed using electrophoresis 3130 by Genetic Analyzer.



# Appendix: Data Sheet

Collaborative Testing Services ~ Forensic Testing Program

\*\*\*\*\*

## Test No. 14-581: DNA-Mixture

DATA MUST BE RECEIVED BY March 10, 2014 TO BE INCLUDED IN THE REPORT

Participant Code:

WebCode:

### Accreditation Release Statement

CTS submits external proficiency test data directly to ASCLD/LAB and ANSI-ASQ NAB/FQS. Please select one of the following statements to ensure your data is handled appropriately.

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

#### Scenario:

Police are investigating the sexual assault of a woman while attending a party at a college sorority house. Screening has been done on the samples with the following results: Item 3 (victim's skirt) is positive for blood only and Item 4 (bed sheet) is positive for blood and semen. The screening lab is submitting these samples (Items 3 and 4) along with the known blood samples of the victim and the male suspect.

#### Items Submitted (Sample Pack S1):

Item 1: Known blood from the Victim.

Item 2: Known blood from the Suspect.

Item 3: Questioned blood stain from the victim's skirt. (white material with floral pattern)

Item 4: Questioned blood and semen mixture from the bed sheet. (orange patterned material)

### New Online Data Entry Feature!

Report results with ease! Enter your results directly into our new data entry portal or upload your STR and YSTR results from the genetic analyzer. Visit [www.cts-portal.com](http://www.cts-portal.com) to access this new feature. Here you will find a detailed "Help" section to guide you through completing your proficiency test online. If you have any questions please do not hesitate to contact CTS.

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

Page 1 of 6

***Part I: DNA ANALYSIS***

**TABLE 1a: STR & Amelogenin Results for Known Items**

- \* Report alleles in numerical order, separated by a comma.
- \* Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X).

<b>STR Amplification Kit Used:</b>		<input type="checkbox"/> COfiler®/Profiler Plus®	<input type="checkbox"/> PowerPlex® 16
Please check all that apply.		<input type="checkbox"/> Identifiler®	<input type="checkbox"/> Other _____

ITEM	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
<b>1</b>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>
<b>2</b>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>

ITEM	D16S539	D18S51	D19S433	D21S11	Amelogenin	CSF1PO
<b>1</b>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>
<b>2</b>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>

ITEM	FGA	Penta D	Penta E	TH01	TPOX	vWA
<b>1</b>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>
<b>2</b>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>

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

**TABLE 1b: STR & Amelogenin Results for Questioned Items**

\* 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>	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
<b>A</b>	e	15,18	14,15	12	10,11	14
	sp	15,16	12,13	12,17	6	18,19
<b>B</b>	15,16,18	[12],[13], 14,15	12,17	[6],10,11	14,18,19	8,11,12

	D2S1338	D3S1358	D5S818	D7S820	D8S1179	D13S317
<b>3</b>						
<b>4</b>						

	D16S539	D18S51	D19S433	D21S11	Amelogenin	CSF1PO
<b>3</b>						
<b>4</b>						

	FGA	Penta D	Penta E	TH01	TPOX	vWA
<b>3</b>						
<b>4</b>						

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

TABLE 1c: YSTR Results

**YSTR Amplification Kit Used** Please check all that apply.

Yfiler®       PowerPlex® Y       Other \_\_\_\_\_

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

TABLE 1d: Additional DNA Results

(If additional space is needed, copy this page or attach your own form following this layout)

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

Please return all pages of this data sheet.

**Part II: 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)?

		<b>Victim (Item 1)</b>		<b>Suspect (Item 2)</b>	
		<b>Item 3</b>	<b>Item 4</b>	<b>Item 3</b>	<b>Item 4</b>
<b>Yes</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Yes</b>	<input type="checkbox"/>
<b>No</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>No</b>	<input type="checkbox"/>
<b>Inconclusive</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<b>Inconclusive</b>	<input type="checkbox"/>

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

**Part III: ADDITIONAL COMMENTS**

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

---

---

---

---

---

---

---

---

---

---

<p><b>Return Instructions:</b> Data must be received via online data entry, fax (please include a cover sheet), or mail by <b>March 10, 2014</b> to be included in the report.</p> <p>QUESTIONS? TEL: +1-571-434-1925 (8 am - 4:30 pm EST) EMAIL: <a href="mailto:forensics@cts-interlab.com">forensics@cts-interlab.com</a> <a href="http://www.ctsforensics.com">www.ctsforensics.com</a></p>	<p>Participant Code:</p> <p>ONLINE DATA ENTRY: <a href="http://www.cts-portal.com">www.cts-portal.com</a> FAX: +1-571-434-1937 or Toll-Free: 1-866-FAX-2CTS (329-2287) MAIL: Collaborative Testing Services, Inc. P.O. Box 650820 Sterling, VA 20165-0820 USA</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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

## RELEASE OF DATA TO ACCREDITATION BODIES

The following Accreditation Releases will apply only to:

Participant Code:

WebCode:

for Test No. **14-581: DNA-Mixture**

This release page must be completed and received by **March 10, 2014** to have this participant's submitted data included in the reports forwarded to the respective Accreditation Bodies.

### ASCLD/LAB RELEASE

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

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

ASCLD/LAB Legacy Certificate No. \_\_\_\_\_ ASCLD/LAB International Certificate No. \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

Laboratory Name \_\_\_\_\_

Location (City/State) \_\_\_\_\_

### ANSI-ASQ NAB/FQS RELEASE

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

ANSI-ASQ NAB/FQS Certificate No. \_\_\_\_\_

Signature and Title: \_\_\_\_\_ Date \_\_\_\_\_

Laboratory Name \_\_\_\_\_

Location (City/State) \_\_\_\_\_

### Return Instructions

### Accreditation Release

*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 6 of 6