



## **DNA - Mixture Test No. 10-581 Summary Report**

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This proficiency test was sent to 208 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 190 participants (91% response rate) and are compiled into the following tables:

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

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

# Manufacturer's Information

Each sample pack consisted of two known bloodstains on clean, white cloth (Items 1 & 2), and two questioned stains one on clean, blue and red plaid cloth (Item 3) and one on clean, tan/green/brown striped cloth (Item 4). The stains in Items 1, 2 and 3 were prepared from human whole blood which was drawn into citric acid preservative bloodbank bags. 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 was blood collected from a female donor, Item 2 was blood collected from a male donor and Item 3 was a mixture of blood collected from the Item 1 female donor and blood collected from the Item 2 male donor that was mixed prior to spotting on the Item 3 substrate. The Item 4 mixture contained the blood of the Item 1 female donor and semen from a donor whose known blood standard was not provided to participants. Stains from different sources were prepared on separate days or at separate times and were packaged once they were thoroughly dried.

## *Sample Preparation Schedule*

<u>Item</u>	<u>Sample Collected</u>	<u>Prepared</u>	<u>Packaged</u>	<u>Volume</u>
1	November 11, 2009	November 13, 2009	November 16, 2009	50 µl
2	November 11, 2009	November 16, 2009	November 16, 2009	50 µl
3	November 11, 2009	November 16, 2009	November 17, 2009	50 µl
4	Blood: November 11, 2009, Semen: Mar - Apr 1993	November 20, 2009	November 23, 2009	50 µl

The blood was refrigerated before being spotted. Completed sample sets were stored at -20°C until shipment on January 4, 2009, following receipt of predistribution results.

## *Amelogenin and STR Results*

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

<u>Item</u>	<u>D3S1358</u>	<u>D5S818</u>	<u>D7S820</u>	<u>D8S1179</u>	<u>D13S317</u>	<u>D16S539</u>	<u>D18S51</u>	<u>D21S11</u>
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4-Blood	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
4-Semen	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2

  

<u>Item</u>	<u>Amel</u>	<u>CSF1PO</u>	<u>FGA</u>	<u>TH01</u>	<u>TPOX</u>	<u>vWA</u>	<u>PentaD</u>	<u>PentaE</u>
1	X,X	10,11	23,25	7,10	11,11	17,17	12,12	5,10
2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
4-Blood	X,X	10,11	23,25	7,10	11,11	17,17	12,12	5,10
4-Semen	X,Y	11,12	22,23	9,9.3	11,11	17,19	9,13	14,17

  

<u>Item</u>	<u>D2S1338</u>	<u>D19S433</u>
1	18,20	13,14
2	21,23	12,14.2
3	18,20,21,23	12,13,14,14.2
4-Blood	18,20	13,14
4-Semen	17,22	15,15.2

## Manufacturer's Information, continued

### YSTR Results

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

<u>Item</u>	<u>DYS19</u>	<u>DYS385</u>	<u>DYS389-I</u>	<u>DYS389-II</u>	<u>DYS390</u>	<u>DYS391</u>
2	15	14,15.2	14	31	21	10
3	15	14,15.2	14	31	21	10
4-Semen	14	15,18	13	29	22	10

  

<u>Item</u>	<u>DYS392</u>	<u>DYS393</u>	<u>DYS437</u>	<u>DYS438</u>	<u>DYS439</u>	<u>DYS448</u>	<u>DYS456</u>	<u>DYS458</u>	<u>DYS635</u>	<u>YGATAH4</u>
2	11	14	14	11	11	20	15	18	23	11
3	11	14	14	11	11	20	15	18	23	11
4-Semen	11	13	15	9	11	20	15	<14	22	11

## 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). Item 1 was blood collected from a female donor, Item 2 was blood collected from a male donor and Item 3 was a mixture of blood collected from the Item 1 female donor and blood collected from the Item 2 male donor that was mixed prior to spotting on the Item 3 substrate. The Item 4 mixture contained the blood of the Item 1 female donor and semen from a donor whose known blood standard was not provided to participants. (See Manufacturer's Information for preparation details)

Of the 190 responding participants, 187 reported DNA interpretations. All 187 participants included the victim (Item 1) as a possible contributor to both the Item 3 mixture and the Item 4 mixture. In addition, all of these included the suspect as a possible contributor to the Item 3 mixture and excluded the suspect as a possible contributor to the Item 4 mixture. The three remaining participants that did not report DNA interpretations stated that they analyzed the samples for database purposes only.

Twenty-four participants reported allelic results that were inconsistent with the consensus/predistribution results. Of these, thirteen participants were missing alleles at one or more loci. Six of these participants did not report the "9.3" allele for locus THO1 in Item 3; one mentioned that their software could not resolve the "9.3" allele. Six participants reported additional alleles at one or more loci. Four participants reported inconsistent alleles at a locus and one participant reported additional alleles at some loci and inconsistent alleles at other loci. Additionally, there were 12 participants that reported "NR", "\*\*" or other laboratory specific notations at one or more loci.

For the locus DYS458, in the YSTR results section, participants reported the allele as either a "<14" or "13" and in one case as "new allele"(sic). The difference in reporting of this allele may be related to a laboratory's policy on how to report off ladder alleles.

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

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
26J6ZV	Kit(s) Reported: Identifiler®								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
	4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14	30,[31],32.2,[33.2]
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
2MJCYU	Kit(s) Reported: Identifiler®								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12	13,14,16,17	29,30,32.2,35
2VA4UF	Kit(s) Reported: Identifiler®								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,[16]	[7],[8],9,10	8,10,[11]	[12],13,[15],16	[8],10,11	10,[11],12,[13]	13,14,[16],[17]	[29],30,32.2,[35]
	4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
2VW229	Kit(s) Reported: COfiler® and Profiler Plus®								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
	4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
32UD9P	Kit(s) Reported: COfiler® and Profiler Plus®								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
	4e	14,15,16	9,10	8,10	8,12,13,16	10,11	10,12	13,14	30,31,32.2
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
36AUF9	Kit(s) Reported: Identifiler®								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,33.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
	4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
3FB DYN	Kit(s) Reported: Identifiler® PowerPlex®16								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
	4e	14,15,16,17	9,10,11,12	8,9,10,12	12,13,16	10,11,12	10,11,12,13	13,14,15,21	30,31,32.2
	4sp	14,15,16,17	9,10,11,12	8,11,12	8,12	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
3LZLPA	Kit(s) Reported: PowerPlex®16 PowerPlex 16 BIO								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
	4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11	
3W49NE	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	[7],[8],9,10	8,10,[11]	[12],13,[15],16	[8],10,11	10,[11],12,[13]	13,14,[16],[17]	[29],30,32.2,[35]	
4e	[14],[15],16,17	[9],10,12	8,[10],12	8,12,[13],[16]	[10],11,12	[10],11,[12],13	[13],14,15	[30],[31],[32.2],[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
3XGDBX	Kit(s) Reported:								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
48HFT2	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
4BRKE9	Kit(s) Reported: COfiler® and Profiler Plus® Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
4FRLP4	Kit(s) Reported:								
1	14,15	9,10	8,10	13,16	10,11		13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11		16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11		13,14,16,17	29,30,32.2,35	
4	14,15	9,10,[12]	8,10	[8],[12],13,16	10,11		13,14	30,[31],32.2,[33.2]	
4URN4Q	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	7,8,9,10	8,[10],[11]	[12],13,[15],16	[8],10,11	10,[11],12,[13]	13,14,[16],[17]	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
4VLD9J	Kit(s) Reported: COfiler® and Profiler Plus® Identifiler® PowerPlex®16 Profiler								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11		13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]		13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12		14,15	31,33.2	
66NQ7Y	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11	
6HCXYT	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	[7],[8],9,10	8,10,[11]	[12],13,[15],16	[8],10,11	10,[11],12,[13]	13,14,[16],[17]	[29],30,32.2,[35]	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
7GG6UF	Kit(s) Reported: COfiler® and Profiler Plus® PowerPlex®16								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
7U47XM	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
7ULTXP	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	[14],15,[16]	[7],[8],9,10	8,10,[11]	12,13,15,16	[8],10,11	10,[11],12,[13]	13,14,[16],[17]	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
7UQ9BQ	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	7,8,9,10	8,10,[11]	12,13,[15],16	8,10,11	10,11,12,13	13,14,16,[17]	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
83UCJD	Kit(s) Reported: COfiler® and Profiler Plus® PowerPlex®16								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
88KG3N	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14	30,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
8AVWYB	Kit(s) Reported: PowerPlex®16								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11	
8TLCWC	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
8YTXPF	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
94MXY6	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	[15],16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
9JXWPN	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	[7],[8],9,10	8,10,[11]	12,13,[15],16	[8],10,11	10,11,12,[13]	13,14,[16],[17]	[29],30,32.2,[35]	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
9RKYNA	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
9RQ9KG	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
A2CG3J	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
A6UUM7	Kit(s) Reported: PowerPlex®16 PowerPlex 16BIO								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11	
A8ELWN	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16]	9,10,[12]	8,10	[8],[12],13,16	10,11,[12]	10,12	13,14	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
AR3CQT	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	7,[8],9,10	8,10,[11]	[12],13,15,16	[8],10,11	10,11,12,[13]	13,14,[16],[17]	29,30,32.2,[35]	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
B27MWH	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,14,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
B3Y426	Kit(s) Reported: SGM Plus								
1	14,15			13,16		10,12	13,14	30,32.2	
2	15,16			12,15		11,13	16,17	29,35	
3	14,15,16			12,13,15,16		10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]			[8],[12],13,16		10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17			8,12		11,13	14,15	31,33.2	
B4C8M4	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15	9,10	8,10	8,12,13,16	10,11	10,12	13,14,15	30,32.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
B72D3U	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	7,8,9,10	8,10,[11]	12,13,15,16	[8],[10],11	10,11,12,13	13,14,[16],[17]	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
BBXZZN	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	[7],[8],9,10	8,10,[11]	[12],13,[15],16	[8],10,11	10,11,12,13	13,14,[16],[17]	[29],30,32.2,[35]	
4e	14,15,[16],[17]	9,10,12	8,10,12	8,12,13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
BCATVQ	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11	
BDZYBG	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
BLU46H	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
BR3ZXB	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
BUMCP9	Kit(s) Reported: PowerPlex®16 PowerPlex 16 BIO								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
BVXE8	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16*	7,8*,9,10	8,10,11*	12,13,15,16	8*,10,11	10,11,12,13	13,14,16*,17*	29*,30,32.2,35*	
4e	14,15,[16],[17]	9,10,[12*]	8,10,[12*]	[8],[12],13,16	10,11,[12*]	10,[11],12,[13*]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
BZCWTN	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
C2JQPZ	Kit(s) Reported: PowerPlex®16 PowerPlex 16 BIO								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
C3EAR2	Kit(s) Reported: PowerPlex®16								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11	
C4P2ZH	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
C8RYBB	Kit(s) Reported: Identifiler® PowerPlex®16 SEFILER								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
CFL66C	Kit(s) Reported: SGM Plus®								
1	14,15			13,16		10,12	13,14	30,32.2	
2	15,16			12,15		11,13	16,17	29,35	
3	14,15,[16]			[12],13,[15],16		10,[11],12,[13]	13,14,[16],[17]	[29],30,32.2,[35]	
4e	14,15,[16],[17]			8,12,13,16		10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17			8,12		11,13	14,15	31,33.2	
CGGM7D	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
CHTHT6	Kit(s) Reported: PowerPlex®16 PowerPlex 16 Bio								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
CLRVDA	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
CPPEB2	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
CQ6J7T	Kit(s) Reported: ABI SGM+								
1	14,15			13,16		10,12	13,14	30,32.2	
2	15,16			12,15		11,13	16,17	29,35	
3	14,15,[16]			[12],13,[15],16		10,[11],12,[13]	13,14,[16],[17]	[29],30,32.2,[35]	
4e	14,15,[16],[17]			[8],13,16		10,12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17			8,12		11,13	14,15	31,33.2	

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11	
D6J2JE	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
D7T8YN	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
DBKJRY	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
DCYUMX	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
DFJWD4	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	[7],[8],9,10	8,10,[11]	[12],13,[15],16	[8],10,11	10,[11],12,[13]	13,14,[16],[17]	[29],30,32.2,[35]	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
DLN2G3	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	[7],[8],9,10	8,10,[11]	[12],13,[15],16	[8],10,11	10,[11],12,[13]	13,14,[16],[17]	[29],30,32.2,[35]	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12,[16]	11,12	[10],11,[12],13	14,15	[30],31,33.2	
DW7ARV	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	[29],30,32.2,[35]	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
DXWG8L	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11	
E3PZPB	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
E6VDEP	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
E8LJVF	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	[7],[8],9,10	8,10,[11]	12,13,15,16	[8],10,11	10,[11],12,[13]	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
EDRK63	Kit(s) Reported: COfiler® and Profiler Plus® PowerPlex® 16								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,[32],[32.2],33.2	
EGRWZ3	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11		13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11		16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11		13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12		13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12		14,15	31,33.2	
EW36UY	Kit(s) Reported: PowerPlex® 16 PowerPlex 16 BIO								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
EXNVZ	Kit(s) Reported: PowerPlex® 16 PowerPlex 16 BIO								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	8,12,13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
EYB3JA	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	[7],[8],9,10	8,10,[11]	[12],13,[15],16	[8],10,11	10,[11],12,[13]	13,14,[16],[17]	[29],30,32.2,[35]	
4e	14,15,16,17	9,10,[12]	8,[10],[12]	8,12,13,16	10,11,[12]	10,11,12,13	[13],14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11	
F98KD9	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
FQPNVU	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
FR2JHL	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
FTFVCK	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
FVNNPZ	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
FXP4JG	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
G3J6HA	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
GDHXV8	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
GDMBGH Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,[11]	12,13,15,16	[8],10,11	10,11,12,[13]	13,14,[16],[17]	29,30,32.2,[35]
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
GEDGX9 Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15	9,10,12	8,10	8,12,13,16	10,11	10,12,13	13,14,15	30,32.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
GEU3F4 Kit(s) Reported: COfiler® and Profiler Plus® PowerPlex®16								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
GFR39V Kit(s) Reported: PowerPlex®16								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
GRG4JB Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
GU6CAY Kit(s) Reported: PowerPlex®16 PowerPlex 16 BIO								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
GWZX3Q Kit(s) Reported: SGM +								
1	14,15			13,16		10,12	13,14	30,32.2
2	15,16			12,15		11,13	16,17	29,35
3	14,15,16			12,13,15,16		10,11,12,13	13,14,16,17	29,30,32.2,35
4e	[14],[15],16,17			8,12,[13],[16]		[10],11,[12],13	[13],14,15	[30],31,[32.2],33.2
4sp	16,17			8,12		11,13	14,15	31,33.2
H96HW3 Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,12,13	13,14,15	30,31,32.2,33.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
H9J49Q	Kit(s) Reported: PowerPlex®16							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
HC6TQH	Kit(s) Reported: COfiler® and Profiler Plus®							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,[16],[17]	9,10,12	8,10,12	[8],[12],13,16	10,11,12	10,[11],12,[13]	13,14,15	30,[31],32.2,[33.2]
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
HJ7ZEX	Kit(s) Reported: PowerPlex®16 PowerPlex 16 BIO							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
HNDQG4	Kit(s) Reported: Identifiler®							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
HPRX3K	Kit(s) Reported: PowerPlex®16							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
HXYRWD	Kit(s) Reported: Identifiler®							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
J87PKG	Kit(s) Reported: Identifiler®							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,[16]	[7],[8],9,10	8,10,[11]	12,13,[15],16	[8],10,11	10,11,12,[13]	13,14,[16],[17]	29,30,32.2,[35]
4e	14,15,[16],[17]	9,10	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
JAWV28	Kit(s) Reported: Identifiler®							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,16	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11	
JCX2ER	Kit(s) Reported: COfiler® and Profiler Plus® PowerPlex®16								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
JH6RGX	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10	8,12,13,16	10,11,12	10,11,12,13	13,14	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
JQ2H7E	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	7,8,9,10	8,10,[11]	[12],13,15,16	[8],10,11	10,11,12,13	13,14,[16],[17]	[29],30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
JRQTW8	Kit(s) Reported: Identifiler® PowerPlex®16 POWER PLEX ES								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
JRV6K4	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
JYNK62	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16	9,10,12	8,10	8,12,13,16	10,11,12	10,12,13	13,14	30,32.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
K3NW22	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	[7],[8],9,10	8,10,[11]	[12],13,[15],16	[8],10,11	10,[11],12,[13]	13,14,[16],[17]	[29],30,32.2,[35]	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
K9X69X	Kit(s) Reported: PowerPlex®16 PowerPlex 16 BIO								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
KGAWKU	Kit(s) Reported: COfiler® and Profiler Plus® PowerPlex®16							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
KQC3NF	Kit(s) Reported: Identifiler®							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,16,17	9,10,12	8,10,12	8,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
L2P69R	Kit(s) Reported: COfiler® and Profiler Plus®							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[12],13,16	10,11,[12]	10,12,[13]	13,14	30,[31],32.2,[33.2]
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
L3KNAT	Kit(s) Reported: PowerPlex®16							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
L4FCNH	Kit(s) Reported: Identifiler®							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,[16]	[7],[8],9,10	8,10,[11]	12,13,15,16	[8],10,11	10,[11],12,13	13,14,[16],[17]	29,30,32.2,35
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12	13,14,[15]	30,[31],32.2,[33.2]
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
L8V2UD	Kit(s) Reported: Identifiler®							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14	30,31,32.2,33.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
L9A9D9	Kit(s) Reported: Identifiler®							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,(16)	7,8,9,10	8,10,(11)	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,(16),(17)	9,10,(12)	8,10,(12)	[8],[12],13,16	10,11,[12]	10,12,[13]	13,14	30,(31),32.2,(33.2)
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
LK4P3A	Kit(s) Reported: Identifiler®							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,[16]	9,10,[12]	8,10	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14	30,[31],32.2,[33.2]
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11	
LLH74U	Kit(s) Reported: PowerPlex®16								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
LPZ4XC	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	7,[8],9,10	8,10,[11]	[12],13,[15],16	[8],10,11	10,11,12,13	13,14,[16],[17]	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
LTE24E	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	[7],[8],9,10	8,10,[11]	12,13,15,16	[8],10,11	10,[11],12,[13]	13,14,16,[17]	29,30,32.2,[35]	
4e	14,15,[16],[17]	9,10,[12]	8,10	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
M6PVRC	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
MC6ECC	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	[7],[8],9,10	8,10,[11]	[12],13,[15],16	8,10,11	10,[11],12,[13]	13,14,[16],[17]	[29],30,32.2,[35]	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
MJ6WQN	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
MLU38E	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
MPW49W	Kit(s) Reported: PowerPlex®16 PowerPlex 16 BIO								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	7,8,9,10	8,10,[11]	[12],13,[15],16	[8],10,11	10,[11],12,[13]	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	8,12,13,16	10,11,12	10,[11],12,[13]	13,14,[15]	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11	
N22CBR	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
N2KPRW	Kit(s) Reported: PowerPlex®16 PowerPlex 16 BIO								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
NFL479	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15	9,10	8,10	[8],[12],13,16	10,11	10,[11],12	13,14	30,[31],32.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
NH77XE	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
NHN69Q	Kit(s) Reported: PowerPlex®16								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
NKDFZJ	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	[7],[8],9,10	8,10,11	[12],13,[15],16	8,10,11	10,[11],12,[13]	13,14,[16],[17]	[29],30,32.2,[35]	
4e	14,15,[16],[17]	9,10,12	8,10,12	[8],[12],13,16	10,11,12	10,[11],12,[13]	13,14,15	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
NKWCD6	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
NLTXGP	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	[7],[8],9,10	8,10,[11]	[12],13,[15],16	[8],10,11	10,[11],12,[13]	13,14,[16],[17]	[29],30,32.2,[35]	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11	
NNCTKN	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
NPQ93V	Kit(s) Reported: PowerPlex®16 also PowerPlex 16BIO (Item 4)								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
NW9F2N	Kit(s) Reported: PowerPlex®16								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
NXGWR7	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15	9,10	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
P3UU6K	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	7,8,9,10	8,[10],[11]	12,13,15,16	[8],10,11	10,[11],12,[13]	13,14,16,17	29,30,32.2,35	
4e	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
P6ZGEJ	Kit(s) Reported: PowerPlex®16								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	[7],[8],9,10	8,10,[11]	[12],13,[15],16	[8],10,11	10,[11],12,[13]	13,14,[16],[17]	[29],30,32.2,[35]	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
P7QMVA	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
PEJVFZ	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
PENDDY	Kit(s) Reported: Identifiler®								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15>[16]	9,10>[7,8]	8,10>[11]	13,16>[12,15]	10,11>[8]	10,12>[11,13]	13,14>[16,17]	30,32.2>[29,35]
	4e	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
PJHA3P	Kit(s) Reported: PowerPlex®16								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
	4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
PQZF2H	Kit(s) Reported: Identifiler®								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
	4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
PRAN7V	Kit(s) Reported: PowerPlex®16 PowerPlex 16 BIO								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
	4e	14,15,16,17	[9],10,[12]	8,[10],[12]	8,12,13,16	[10],11,[12]	10,11,12,13	[13],14,[15]	30,[31],32.2,[33.2]
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
PTQLH9	Kit(s) Reported: Identifiler® Minifiler								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
	4e	14,15,17	9,10	8,10,12	8,12,13,16	10,11	10,11,12,13	13,14,15	30,31,32.2,33.2
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
PVCQRQ	Kit(s) Reported:								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
	4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
PXWH29	Kit(s) Reported: Identifiler® Minifiler								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
	4e	14,15,17	9,10,12	8,10	8,12,13,16	10,11	10,11,12,13	13,14	30,31,32.2
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
QA7JUU	Kit(s) Reported: Identifiler® PowerPlex®16								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
	4	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
QL2N7Q	Kit(s) Reported: COfiler® and Profiler Plus®							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
QN7HDN	Kit(s) Reported: COfiler® and Profiler Plus® PowerPlex®16							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,16,17	9,10,12	8,10	8,13,16	10,11,12	10,11,12,13	13,14	30,31,32.2,33.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
QPLFF8	Kit(s) Reported: Identifiler® Minifiler							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,12,13	13,14,15	30,31,32.2,33.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
R33NUJ	Kit(s) Reported: Identifiler®							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
R727RC	Kit(s) Reported: Identifiler®							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,[16]	7,[8],9,10	8,10,[11]	12,13,[15],16	[8],10,11	10,11,12,[13]	13,14,[16],[17]	29,30,32.2,[35]
4e	14,15	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,12	13,14	30,[31],32.2,[33.2]
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
R8GGQ6	Kit(s) Reported: Identifiler®							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,[16]	7,8,9,10	8,10,[11]	[12],13,15,16	[8],10,11	10,11,12,[13]	13,14,[16],[17]	29,30,32.2,[35]
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
R98M8V	Kit(s) Reported: Identifiler®							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
RLFAFR	Kit(s) Reported: COfiler® and Profiler Plus®							
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,12,13	13,14,15	30,31,32.2,33.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
T3YM8P	Kit(s) Reported: COfiler® and Profiler Plus®								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
	4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
TDMCB6	Kit(s) Reported: Identifiler®								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,[16]	[7],[8],9,10	8,10,[11]	12,13,15,16	[8],10,11	10,11,12,[13]	13,14,[16],[17]	29,30,32.2,35
	4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14	30,[31],32.2,[33.2]
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
TFMPPG	Kit(s) Reported: Identifiler®								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
	4e	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
TLTE9A	Kit(s) Reported: Identifiler®								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,[16]	7,8,9,10	8,10,[11]	12,13,15,16	[8],10,11	10,[11],12,[13]	13,14,16,[17]	29,30,32.2,35
	4e	14,15	9,10	8,10	8,[12],13,16	ND	10,12,[13]	13,14	30,[31],32.2
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
TZYBRC	Kit(s) Reported: COfiler® and Profiler Plus®								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
	4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
U9KXZK	Kit(s) Reported:								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
	4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
UGF7TJ	Kit(s) Reported: Identifiler®								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
	4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
ULRGHR	Kit(s) Reported: COfiler® and Profiler Plus®								
	1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
	2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
	3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
	4e	14,15	9,10,[12]	8,10	13,16	10,11	10,12	14,NR	30,32.2
	4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
UQXNNG Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	[7],[8],9,10	8,10,11	[12],13,[15],16	8,10,11	10,[11],12,[13]	13,14,[16],[17]	[29],30,32.2,[35]
4e	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,[31],32.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
URH4K8 Kit(s) Reported: Identifiler® Minifiler								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
UYUG6N Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,16,17	9,10	8,10	12,13,16	10,11	10,12	13,14	30,31,32.2,33.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
V87QE3 Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,[16]	[7],[8],9,10	8,10,[11]	12,13,15,16	[8],10,11	10,[11],12,[13]	13,14,[16],[17]	29,30,32.2,[35]
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
VDXXB Kit(s) Reported: AmpFISTR SGM Plus								
1	14,15			13,16		10,12	13,14	30,32.2
2	15,16			12,15		11,13	16,17	29,35
3	14,15,16			12,13,15,16		10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,16,17			8,12,13,16		10,11,12,13	13,14,15	30,31,32.2,33.2
4sp	16,17			8,12		11,13	14,15	31,33.2
VEM9N4 Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,[16]	[7],[8],9,10	8,10,[11]	[12],13,[15],16	[8],10,11	10,[11],12,[13]	13,14,[16],[17]	[29],30,32.2,[35]
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
VKB7XD Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
VKUVF8 Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11	
VL7UD2	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	[15],16,17	10,12	8,12	8,12,[13]	11,12	11,13	14,15	[30],31,33.2	
VP7X7A	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
W79XU4	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	7,8,9,10	8,10,[11]	[12],13,15,16	[8],10,11	10,11,12,13	13,14,16,[17]	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
W7PYW6	Kit(s) Reported: SGM Plus								
1	14,15	-	-	13,16	-	10,12	13,14	30,32.2	
2	15,16	-	-	12,15	-	11,13	16,17	29,35	
3	14,15,16	-	-	12,13,15,16	-	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	-	-	[8],[12],13,16	-	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	-	-	8,12	-	11,13	14,15	31,33.2	
W8KJK6	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	[7],[8],9,10	8,10,11	[12],13,[15],16	[8],10,11	10,[11],12,[13]	13,14,[16],[17]	[29],30,32.2,[35]	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
WFTDEX	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,(16)	7,8,9,10	8,10,(11)	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,(16),(17)	9,10,(12)	8,10,(12)	(8),(12),13,16	10,11,(12)	10,12,[13]	13,14,(15)	30,(31),32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
WJFNWB	Kit(s) Reported: PowerPlex®16								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
WKNZCR	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11	
WTFHNF	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
WW6UE9	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	[7],[8],9,10	8,10,[11]	[12],13,[15],16	[8],10,11	10,[11],12,[13]	13,14,[16],[17]	[29],30,32.2,[35]	
4e	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
X7PDMB	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
X8EPD4	Kit(s) Reported: Identifiler® Minifiler								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
XAK6TM	Kit(s) Reported: PowerPlex®16								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
XFBHUB	Kit(s) Reported: PowerPlex®16								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
XJTYPZ	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	[7],8,9,10	8,10,[11]	[12],13,[15],16	[8],10,11	10,11,12,[13]	13,14,[16],[17]	29,30,32.2,[35]	
4e	14,15,[16],[17]	9,10,[12]	8,10	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
Y4C7TG	Kit(s) Reported: PowerPlex®16 SGM Plus/Profiler								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	[7],[8],9,10	8,10,[11]	12,13,15,16	[8],10,11	10,[11],12,[13]	13,14,[16],[17]	[29],30,32.2,35	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	

TABLE 1

WebCode Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11	
YA3HU6	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
YN2KAR	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
YYGEM6	Kit(s) Reported:								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	[7],[8],9,10	8,10,[11]	[12],13,[15],16	[8],10,11	10,[11],12,[13]	13,[14]	[29],30,32.2,[35]	
4e	14,15,[16],[17]	9,10,[12]	8,10,[12]	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14,[15]	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
ZKDCJ3	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,[16]	7,[8],9,10	8,10,[11]	12,13,15,16	[8],10,11	10,11,12,[13]	13,14,[16],[17]	[29],30,32.2,[35]	
4e	14,15,[16],[17]	9,10,[12]	8,10	[8],[12],13,16	10,11,[12]	10,[11],12,[13]	13,14	30,[31],32.2,[33.2]	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	[30],31,33.2	
ZQKYB7	Kit(s) Reported: Identifiler®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	
ZRV7PD	Kit(s) Reported: COfiler® and Profiler Plus®								
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2	
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35	
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35	
4e	14,15,16,17	9,10,12	8,10,12	8,12,13,16	10,11,12	10,11,12,13	13,14,15	30,31,32.2,33.2	
4sp	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2	

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

\* See Additional Comments (Table 8)

# STR Results - Part II

## TABLE 2

WebCode	Item	Amel	CSF1 PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
26J6ZV	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,[Y]	10,11	[22],23,25	7,[9],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
2MJCYU	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
2VA4UF	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,[24],25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11,11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
2VW229	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,10*	8,11	14,16,17		
	4e	X,X,[Y]	10,11,[12]	[22],23,25	7,[9],10	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
32UD9P	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11	22,23,25	7,10	11,11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
36AUF9	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
3FBDYN	1	X,X	10,11	23,25	7,10	11,11	17,17	12,12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12,15	22,23,25	5,7,9,10	8,11			5,10,14
	4sp	X,Y	10,11,12	21,22,23	6,7,9,9.3	10,11	16,17,18,19	9,12,13	10,14,16,17
3LZLPA	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
3W49NE	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,[12]	23,[24],25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,Y	[10],11,12	22,23,[25]	[7],9,9.3,[10]	11,11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
3XGDBX	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,10*	8,11	14,16,17		
	4e	X,Y	10,11	22,23,25	7,9,10	11	17		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
48HFT2	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X,[Y]	10,11	[22],23,25	7,[9],10	11,11	17,17		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
4BRKE9	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,12	23,24,25,27	7,9.3,10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
4FRLP4	1	X,X		23,25			17,17		
	2	X,Y		24,27			14,16		
	3	X,Y		23,24,25,27			14,16,17		
	4	X,Y		23,25			17,19		
4URN4Q	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,[24],25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	22,23,25	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
4VLD9J	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,X,X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X,[X],[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
66NQ7Y	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11,11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
6HCXYT	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,X,[X],[Y]	10,11,[12]	23,[24],25,[27]	7,9.3,10	[8],11,11	[14],[16],17,17		
	4e	X,X,[X],[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
7GG6UF	1	X,X	10,11	23,25	7,10	11,11	17,17	12,12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19	9,13	14,17
7U47XM	1	X,X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
7ULTXP	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,[11],[12]	23,[24],25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	[22],23,[25]	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
7UQ9BQ	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,24,25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
83UCJD	1	X,X	10,11	23,25	7,10	11,11	17,17	12,12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19	9,13	14,17
88KG3N	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X	10,11	22,23,25	7,9,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
8AVWYB	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
8TLCWC	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11,11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
8YTXPF	1	X	10,11	23,25	7,10	11	17	NA	NA
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	NA	NA
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	NA	NA
	4e	X,Y	10,11,12	22,23,25	7,9,10*	11	17,19	NA	NA
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	NA	NA
94MX6	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
9JXWPN	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,24,25,27	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
9RKYNA	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
9RQ9KG	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,10*	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
A2CG3J	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
A6UUM7	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,[Y]	10,11,[12]	22,23,25	7,[9],[9.3],10	11	17,[19]	[9],12,[13]	5,10,[14],[17]
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
A8ELWN	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,[Y]	10,11	[22],23,25	7,[9],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
AR3CQT	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,24,25,27	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
B27MWH	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
B3Y426	1	X		23,25	7,10		17		
	2	X,Y		24,27	7,9.3		14,16		
	3	X,Y		23,24,25,27	7,9.3,10		14,16,17		
	4e	X,[Y]		[22],23,25	7,[9],[9.3],10		17,[19]		
	4sp	X,Y		22,23	9,9.3		17,19		
B4C8M4	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X	10,11	23,25	7,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
B72D3U	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,[24],25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
BBXZZN	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,24,25,27	7,9.3,10	[8],11,11	[14],[16],17,17		
	4e	X,[Y]	10,11,[12]	22,23,25	7,9,9.3,10	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
BCATVQ	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X,[Y]	10,11,[12]	[22],23,25	7,[9],10*	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
BDZYBG	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X,[X],[Y]	10,11,[12]	[22],23,25	7,[9],10	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
BLU46H	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,X,[Y]	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X,[Y]	10,11,12	22,23,25	7,9,9.3,10	11,11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
BR3ZXB	1	X,X	10,11	23,25	7,10	11,11	17,17	12,12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,X	10,11	23,25	7,10	11,11	17,17	12,12	5,10
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19	9,13	14,17
BUMCP9	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
BVXEB8	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12*	23,24*,25,27*	7,9.3*,10	8*,11	14,16,17		
	4e	X,[Y*]	10,11,[12*]	[22],23,[24*],25	7,[9*],[9.3*],10	11	17,[19*]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
BZCWTN	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11	22,23,25	7,9,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
C2JQPZ	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
C3EAR2	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],10	11	17,[19]	[9],12	5,10,[14]
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
C4P2ZH	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
C8RYBB	1	X,X	10,11	23,25	7,10	11,11	17,17	12,12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11,11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19	9,13	14,17
CFL66C	1	X,X		23,25	7,10		17,17		
	2	X,Y		24,27	7,9.3		14,16		
	3	X,X,[Y]		23,[24],25,[27]	7,[9.3],10		[14],[16],17,17		
	4e	X,X,[Y]		22,23,25	7,[9],[9.3],10		17,17,[19]		
	4sp	X,Y		22,23	9,9.3		17,19		
CGGM7D	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X,[Y]	10,11	[22],23,25	7,[9],[9.3],10	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
CHTHT6	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
CLRVDA	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,10*	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
CPPEB2	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X,[Y]	10,11	23,25	7,10	11,11	17,17		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
CQ6J7T	1	X,X		23,25	7,10		17,17		
	2	X,Y		24,27	7,9.3		14,16		
	3	X,[Y]		23,[24],25,[27]	7,[9.3],10		[14],[16],17		
	4e	X,[Y]		[22],23,25	7,[9],10		17,[19]		
	4sp	X,Y		22,23	9,9.3		17,19		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
D6J2JE	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X,[X],[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
D7T8YN	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X,[Y]	10,11,[12]	[22],23,25	7,[9*],10	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
DBKJRY	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,[12]	[22],23,25	7,[9],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
DCYUMX	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X	10,11	23,25	7,10	11,11	17,17		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
DFJWD4	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,[24],25,[27]	7,10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11,11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
DLN2G3	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,X,[Y]	10,11,[12]	23,[24],25,[27]	7,[9.3],10	[8],11,11	[14],[16],17,17		
	4e	X,X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
DW7ARV	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,24,25,27	7,9.3,10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
DXWG8L	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,[Y]	10,11	[22],23,25	7,10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
E3PZPB	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
E6VDEP	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],10	11,11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
E8LJVF	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,24,25,27	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
EDRK63	1	X,X	10,11	23,25	7,10	11,11	17,17	12,12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,X,[Y]	10,11,[12]	[22],23,25	7,[9],10	11,11	17,17,[19]	[9],12,12	5,10,[14]
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19	9,13	14,17
EGRWZ3	1	X,X		23,25			17,17		
	2	X,Y		24,27			14,16		
	3	X,Y		23,24,25,27			14,16,17		
	4e	X,Y		22,23,25			17,19		
	4sp	X,Y		22,23			17,19		
EW36UY	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
EXXNVZ	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17,[19]	[9],12,[13]	5,10,[14],[17]
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
EYB3JA	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,[24],25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,12	[22],23,[25]	7,9,9.3,10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
F98KD9	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,24,25	7,9,9.3,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
FQPNVU	1	X,X	10,11	23,25	7,10	11	17	-	-
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	-	-
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	-	-
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	-	-
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	-	-
FR2JHL	1	X,X	10,11	23,25	7,10	11,11	17,17	-	-
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	-	-
	3	X,Y	10,11,12	23,24,25,27	7,10,*	8,11	14,16,17	-	-
	4e	X,X,[Y]	10,11	[22],23,25	7,[9*],10	11,11	17,17,[19]	-	-
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19	-	-
FTFVCK	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
FVNNPZ	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10*	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
FXP4JG	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
G3J6HA	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
GDHXV8	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	23,25	7,9,9.3,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
GDMBGH	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,24,25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],10	11,11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
GEDGX9	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X	10,11	23,25	7,9,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
GEU3F4	1	X,X	10,11	23,25	7,10	11,11	17,17	12,12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19	9,13	14,17
GFR39V	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
GRG4JB	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
GU6CAY	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
GWZX3Q	1	X,X		23,25	7,10		17,17		
	2	X,Y		24,27	7,9.3		14,16		
	3	X,Y		23,25,27	7,9.3,10		14,16,17		
	4e	X,Y		22,23,[25]	[7],9,9.3,[10]		17,19		
	4sp	X,Y		22,23	9,9.3		17,19		
H96HW3	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
H9J49Q	1	X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17,[19]	[9],12,[13]	5,10,[14],[17]
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
HC6TQH	1	X,X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,[Y]	10,11,[12]	22,23,25	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
HJ7ZEX	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
HNDQG4	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
HPRX3K	1	X,X	10,11	23,25	7,10	11,11	17,17	12,12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4	X,Y	10,11,12	22,23,25	7,9,9.3,10	11,11	17,19	3,9,12	5,10,14,17
HXYRWD	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
J87PKG	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,24,25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X	10,11,[12]	23,25	7,[9],10	11	17		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
JAWV28	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11	22,23,25	7,9,9.3,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
JCX2ER	1	X,X	10,11	23,25	7,10	11,11	17,17	12,12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19	9,13	14,17
JH6RGX	1	X,X	10,11	23,25	7,10	11,11	17,17	N/A	N/A
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	N/A	N/A
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	N/A	N/A
	4e	X,Y	10,11	22,23,25	7,10	11	17,19	N/A	N/A
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	N/A	N/A
JQ2H7E	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,24,25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
JRQTW8	1	X,X	10,11	23,25	7,10	11,11	17,17	12,12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11,11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19	9,13	14,17
JRV6K4	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
JYNK62	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11	22,23,25	7,10	11	17		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
K3NW22	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,X,[X],[Y]	10,11,[12]	23,[24],25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,X,[X],[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
K9X69X	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
KGAWKU	1	X,X	10,11	23,25	7,10	11,11	17,17	12,12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9.3,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19	9,13	14,17
KQC3F	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
L2P69R	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
L3KNAT	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
L4FCNH	1	X,X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,24,25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
L8V2UD	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11	22,23,25	7,9,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
L9A9D9	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,X,(Y)	10,11,(12)	23,24,25,27	7,(9.3),10	(8),11,11	(14),(16),17,17		
	4e	X,X,[Y]	10,11,[12]	(22),23,25	7,(9),(9.3),10	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
LK4P3A	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,[Y]	10,11,[12]	23,25	7,[9],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
LLH74U	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17,[19]	[9],12,[13]	5,10,[14],[17]
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
LPZ4XC	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,24,25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11	[22],23,25	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
LTE24E	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,[24],25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11	23,25	7,[9],[9.3],10	11,11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
M6PVRC	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
MC6ECC	1	X,X	10,11	23,25	7,10	11,11	17,17	/	/
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	/	/
	3	X,X,[Y]	10,11,[12]	23,24,25,27	7,9.3,10	[8],11,11	[14],[16],17,17	/	/
	4e	X,X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11,11	17,17,[19]	/	/
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19	/	/
MJ6WQN	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,12	23,24,25,27	7,[9.3],[10]	[8],11	[14],[16],17		
	4e	X	10,11	23,25	7,10	11	17		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
MLU38E	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11	22,23,25	7,9,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
MPW49W	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,[Y]	10,11,[12]	23,[24],25,[27]	7,[9.3],10	[8],11	[14],[16],17	[10],12	5,10,[11]
	4e	X,[Y]	[10],[11],[12]	[22],23,[25]	7,9,[9.3],10	11	17,[19]	[9],12,[13]	5,10,[14],[17]
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
N22CBR	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11,11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
N2KPRW	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
NFL479	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X	10,11	23,25	7,[9],10	11	17		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
NH77XE	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X,[Y]	10,11,[12]	[22],23,25	7,[9],10	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
NHN69Q	1	X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,10	11	17,19	9,12,13	5,10
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
NKDFZJ	1	X,X	10,11	23,25	7,10	11,11	17,17	No	No
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	No	No
	3	X,Y	10,11,12	23,[24],25,[27]	7,9.3,10	8,11	[14],[16],17	No	No
	4e	X,Y	10,11,12	22,23,25	7,[9],[9.3],10	11,11	17,19	No	No
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19	No	No
NKWCD6	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,10	11,11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
NLTXGP	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,[24],25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11,11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
NNCTKN	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X	10,11	23,25	7,10	11,11	17,17		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
NPQ93V	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
NW9F2N	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,[Y]	10,11	[22],23,25	7,9,10	11	17,[19]	[9],12,[13]	5,10,[14],[17]
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
NXGWR7	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
P3UU6K	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,[11],[12]	23,[24],25,[27]	7,[9.3],[10]	[8],11	[14],[16],17		
	4e	X	10,11	23,25	7,10	11	17		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
P6ZGEJ	1	X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,[Y]	10,11,[12]	23,[24],25,[27]	7,9.3,10	[8],11	[14],[16],17	[10],12	5,10,[11]
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],10	11	17	[9],12,[13]	5,10,[14],[17]
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
P7QMVA	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,X,X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X,[X],[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
PEJVFZ	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
PENDDY	1	XX female	10,11	23,25	7,10	11,11	17,17		
	2	XY male	10,12	24,27	7,9.3	8,11	14,16		
	3	X>>Y female [male]	10,11>[12]	23,25>[24,27]	7,10>[9.3]	11>>[8]	17,17>[14,16]		
	4e	X>>Y	10,11	23,25	7,10	11,11	17,17		
	4sp	XY	11,12	22,23	9,9.3	11,11	17,19		
PJHA3P	1	X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
PQZF2H	1	X,X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
PRAN7V	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,[Y]	[10],11,[12]	[22],23,[25]	7,9,9.3,10	11	17,[19]	[9],12,[13]	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
PTQLH9	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X	10,11,12	23,25	7,9,9.3,10	11,11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
PVCQRQ	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
PXWH29	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X	10,11	23,25	7,9,9.3,10	11,11	17,17		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
QA7JUU	1	X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	9,12,13	5,10,14,17

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
QL2N7Q	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
QN7HDN	1	X,X	10,11	23,25	7,10	11,11	17,17	12,12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19	9,13	14,17
QPLFF8	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	23,25	7,9,9.3,10	11,11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
R33NUJ	1	X,X	10,11	23,25	7,10	11	17	-	-
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	-	-
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	-	-
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,9	-	-
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	-	-
R727RC	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,24,25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X	10,11,[12]	[22],23,25	7,[9],10	11	17		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
R8GGQ6	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,24,25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
R98M8V	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,[Y]	10,11,[12]	22,23,25	7,[9],10*	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
RLFAFR	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
T3YM8P	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
TDMCB6	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,24,25,27	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
TFMPPG	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X	10,11	23,25	7,10	11,11	17,17		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
TLTE9A	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,25,27	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11	23*	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
TZYBRC	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X,[Y]	10,11,[12]	[22],23,25	7,[9],10	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
U9KXZK	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	9,12,13	5,10,14,17
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
UGF7TJ	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11,11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
ULRGHR	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,10	8,11	14,16,17		
	4e	X,X	11,NR	23,25	7,10	11,NR	17,17		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
UQXNNG	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,12	23,[24],25,[27]	7,9.3,10	[8],11	14,16,17		
	4e	X	10,11	23,25	7,10	11	17		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
URH4K8	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11,11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
UYUG6N	1	X,X	10,11	23,25	7,10	11,11	17,17	/	/
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	/	/
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	/	/
	4e	X,Y	10,11,12	22,23,25	7,10	11	17	/	/
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19	/	/
V87QE3	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,[24],25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	23,25	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
VDXXXB	1	X,X		23,25	7,10		17,17		
	2	X,Y		24,27	7,9.3		14,16		
	3	X,[Y]		23,24,25,27	7,9.3,10		14,16,17		
	4e	X,[Y]		22,23,25	7,9,9.3,10		17,[19]		
	4sp	X,Y		22,23	9,9.3		17,19		
VEM9N4	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,[24],25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
VKB7XD	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X,[Y]	10,11,[12]	[22],23,25	7,[9],10	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
VKUVF8	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11	22,23,25	7,9.3,10	11,11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
VL7UD2	1	X,X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,12	23,24,25,27	7,9.3,10	[8],11	14,16,17		
	4e	X,[Y]	10,11,12	22,23,25	7,9,9.3,10	11	17,19		
	4sp	X,Y	11,12	22,23	[7],9,9.3	11	17,19		
VP7X7A	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,10,*	8,11	14,16,17		
	4e	X,X,[Y]	10,11,[12]	[22],23,25	7,[9],10,[*]	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
W79XU4	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,24,25,27	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
W7PYW6	1	X,X	-	23,25	7,10	-	17,17	-	-
	2	X,Y	-	24,27	7,9.3	-	14,16	-	-
	3	X,Y	-	23,24,25,27	7,9.3,10	-	14,16,17	-	-
	4e	X,[Y]	-	[22],23,25	7,[9],[9.3],10	-	17,[19]	-	-
	4sp	X,Y	-	22,23	9,9.3	-	17,19	-	-
W8KJK6	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,12	23,[24],25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19,[20]*		
WFTDEX	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,X,(Y)	10,11,(12)	23,24,25,27	7,9.3,10	(8),11,11	(14),(16),17,17		
	4e	X,X,[Y]	10,11,[12]	(22),23,25	7,(9),(9.3),10	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
WJFNWB	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],10	11	17,[19]	[9],12,[13]	5,10,[14]
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
WKNZCR	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	23,25	7,9,10*	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
WTFHNF	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X,[Y]	10,11	[22],23,25	7,[9.3],10	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
WV6UE9	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,[24],25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X	10,11	23,25	7,10	11	17		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
X7PDMB	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X,[Y]	10,11,[12]	[22],23,25	7,[9++]*,10	11,11	17,17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
X8EPD4	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X	10,11,12	22,23,25	7,9,9.3,10	11,11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
XAK6TM	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,[Y]	10,11	[22],23,25	7,[9],[9.3],10	11	17,[19]	[9],12,[13]	5,10,[14],[17]
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
XFBHUB	1	X,X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
	4e	X,[Y]	10,11,[12]	22,23,25	7,[9],[9.3],10	11	17,[19]	[9],12,[13]	5,10,[14],[17]
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	9,13	14,17
XJTYPZ	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,[24],25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11	[22],23,25	7,[9],10	11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
Y4C7TG	1	X	10,11	23,25	7,10	11	17	12	5,10
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
	3	X,[Y]	10,11,[12]	23,[24],25,[27]	7,[9.3],10	[8],11	[14],[16],17	ND	ND
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17,[19]	ND	ND
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	ND	ND

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
YA3HU6	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,X	10,11,12	22,23,25	7,9,9.3,10	11,11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
YN2KAR	1	X,X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
YYGEM6	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,[24],25	7,9.3,10	8,11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],10	11,11	17,[19]		
	4sp	X,Y	11,12	22,23	9,9.3	11,11	17,19		
ZKDCJ3	1	X	10,11	23,25	7,10	11	17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,[Y]	10,11,[12]	23,[24],25,[27]	7,[9.3],10	[8],11	[14],[16],17		
	4e	X,[Y]	10,11,[12]	[22],23,25	7,[9],[9.3],10	11	17		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		
ZQKYB7	1	X,X	10,11	23,25	7,10	11	17	-	-
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16	-	-
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	-	-
	4e	X,Y	10,11,12	22,23,25	7,9,9.3,10	11	17,19	-	-
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19	-	-
ZRV7PD	1	X,X	10,11	23,25	7,10	11,11	17,17		
	2	X,Y	10,12	24,27	7,9.3	8,11	14,16		
	3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17		
	4e	X,Y	10,11,12	22,23,25	7,9,10	11	17,19		
	4sp	X,Y	11,12	22,23	9,9.3	11	17,19		

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

\* See Additional Comments (Table 8)

# STR Results - Part III

TABLE 3

WebCode	Item	D2S1338	D19S433
26J6ZV	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
2MJCYU	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
2VA4UF	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	[12],13,14,[14.2]
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
36AUF9	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
3FBDYN	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
3W49NE	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	[12],13,14,[14.2]
	4e	17,[18],[20],22	[13],[14],15,15.2
	4sp	17,22	15,15.2
3XGDBX	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14
	4sp	17,22	15,15.2
4BRKE9	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	[17],18,20,[22]	13,14,[15.2]
	4sp	17,22	15,15.2

TABLE 3

WebCode	Item	D2S1338	D19S433
4URN4Q	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	[12],13,14,[14.2]
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
4VLD9J	1	18,20	13,14
	2	21,23	12,14.2
66NQ7Y	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
7ULTXP	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
7UQ9BQ	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,[23]	12,13,14,14.2
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
88KG3N	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20	13,14,15
	4sp	17,22	15,15.2
8YTXPF	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
9JXWPN	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	12,13,14,[14.2]
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2

TABLE 3

WebCode	Item	D2S1338	D19S433
9RQ9KG	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
A2CG3J	1	18,20	13,14
	2	21,23	12,14.2
A8ELWN	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	[17],18,20	13,14,[15.2]
	4sp	17,22	15,15.2
AR3CQT	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	[12],13,14,[14.2]
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
B3Y426	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
B72D3U	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,[23]	[12],13,14,[14.2]
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
BBZZN	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	[12],13,14,[14.2]
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
BDZYBG	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2

TABLE 3

WebCode	Item	D2S1338	D19S433
BR3ZXB	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	18,20	13,14
	4sp	17,22	15,15.2
BZCWTN	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15
	4sp	17,22	15,15.2
C8RYBB	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
CFL66C	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	[12],13,14,[14.2]
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
CLRVDA	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
CQ6J7T	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	[12],13,14,[14.2]
	4e	18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
D6J2JE	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2

TABLE 3

WebCode	Item	D2S1338	D19S433
DCYUMX	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	18,20	13,14
	4sp	17,22	15,15.2
DLN2G3	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	[12],13,14,[14.2]
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,[21],22	15,15.2
DW7ARV	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	12,13,14,14.2
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
E8LJVF	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	12,13,14,14.2
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
EYB3JA	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	[12],13,14,[14.2]
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
F98KD9	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
FQPNVU	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2

TABLE 3

WebCode	Item	D2S1338	D19S433
FVNNPZ	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
FXP4JG	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20	13,14,15,15.2
	4sp	17,22	15,15.2
GDHXV8	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
GDMBGH	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,[23]	12,13,14,[14.2]
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
GEDGX9	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15.2
	4sp	17,22	15,15.2
GWZX3Q	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21	12,13,14
	4e	17,[18],[20],22	[13],[14],15,15.2
	4sp	17,22	15,15.2
HNDQG4	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
HXYRWD	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2

TABLE 3

WebCode	Item	D2S1338	D19S433
J87PKG	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,[23]	12,13,14,14.2
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
JAWV28	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
JQ2H7E	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	12,13,14,14.2
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
JRQTW8	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
JRV6K4	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
KQCN3F	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20	13,14,15,15.2
	4sp	17,22	15,15.2
L4FCNH	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],23	[12],13,14,[14.2]
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2

TABLE 3

WebCode	Item	D2S1338	D19S433
L8V2UD	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
L9A9D9	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	(17),18,20,(22)	13,14,(15),[15.2]
	4sp	17,22	15,15.2
LK4P3A	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
LPZ4XC	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,[14.2]
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
LTE24E	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],23	12,13,14,[14.2]
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
M6PVRC	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15
	4sp	17,22	15,15.2
MC6ECC	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	[12],13,14,[14.2]
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2

TABLE 3

WebCode	Item	D2S1338	D19S433
MLU38E	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
N22CBR	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
NFL479	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	[17],18,20	13,14
	4sp	17,22	15,15.2
NKDFZJ	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	[12],13,14,[14.2]
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
NLTXGP	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	[12],13,14,[14.2]
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
NNCTKN	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	18,20	13,14
	4sp	17,22	15,15.2
NXGWR7	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	[17],18,20	13,14,[15]
	4sp	17,22	15,15.2

TABLE 3

WebCode	Item	D2S1338	D19S433
PENDDY	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20>[21,23]	13,14>[12,14.2]
	4e	18,20	13,14
	4sp	17,22	15,15.2
PQZF2H	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
PTQLH9	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
PXWH29	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	18,20	13,14,15,15.2
	4sp	17,22	15,15.2
QA7JUU	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4	17,18,20,22	13,14,15,15.2
QPLFF8	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
R33NUJ	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2

TABLE 3

WebCode	Item	D2S1338	D19S433
R727RC	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	12,13,14,14.2
	4e	[17],18,20,[22]	13,14,[15]
	4sp	17,22	15,15.2
R8GGQ6	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	[12],13,14,[14.2]
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
R98M8V	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
TDMCB6	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	[12],13,14,[14.2]
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
TFMPPG	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	18,20	13,14
	4sp	17,22	15,15.2
TLTE9A	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,[14.2]
	4e	[17],18,20,[22]	13,14
	4sp	17,22	15,15.2
UGF7TJ	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2

TABLE 3

WebCode	Item	D2S1338	D19S433
URH4K8	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
V87QE3	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],23	12,13,14,[14.2]
	4e	[17],18,20,[22]	13,14,[15]
	4sp	17,22	15,15.2
VDXXXB	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
VEM9N4	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	[12],13,14,[14.2]
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
VKUVF8	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15
	4sp	17,22	15,15.2
VL7UD2	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	[13],[14],15,15.2
W79XU4	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	12,13,14,[14.2]
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2

TABLE 3

WebCode	Item	D2S1338	D19S433
W7PYW6	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
WFTDEX	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	(17),18,20,(22)	13,14,[15],[15.2]
	4sp	17,22	15,15.2
WKNZCR	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
WV6UE9	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	[12],13,14,[14.2]
	4e	18,20	13,14
	4sp	17,22	15,15.2
X8EPD4	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
XJTPZ	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],23	12,13,14,14.2
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
Y4C7TG	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,[14],[14.2]
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2

TABLE 3

WebCode	Item	D2S1338	D19S433
YA3HU6	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15.2
	4sp	17,22	15,15.2
YN2KAR	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2
YYGEM6	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,[21],[23]	[12],13,14,[14.2]
	4e	[17],18,20,[22]	13,14,[15],[15.2]
	4sp	17,22	15,15.2
ZKDCJ3	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,[23]	12,13,14,14.2
	4e	[17],18,20	13,14,[15.2]
	4sp	17,22	15,15.2
ZQKYB7	1	18,20	13,14
	2	21,23	12,14.2
	3	18,20,21,23	12,13,14,14.2
	4e	17,18,20,22	13,14,15,15.2
	4sp	17,22	15,15.2

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

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

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391
26J6ZV	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
2VA4UF	Kit(s) Reported: PowerPlex®Y						
	2	15	14,15.2*	14	31	21	10
	3	15	14,15.2*	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
2VW229	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
32UD9P	Kit(s) Reported: PowerPlex®Y						
	1	NR	NR	NR	NR	NR	NR
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	NR	13	NR	22	10
	4sp	14	15,18	13	29	22	10
3FBDYN	Kit(s) Reported:						
	2	15	14,15.3	14	31	21	10
	3	15		14	31	21	10
	4sp	14	15,18	13	29	22	10
3W49NE	Kit(s) Reported: PowerPlex®Y						
	1	-	-	-	-	-	-
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
4URN4Q	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
7GG6UF	Kit(s) Reported: PowerPlex®Y						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391
7U47XM	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
7ULTXP	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
83UCJD	Kit(s) Reported: PowerPlex®Y						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
B27MWH	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
BLU46H	Kit(s) Reported: PowerPlex®Y						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
BVXEB8	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15*	14*,15.2*	14	31*	21*	10*
	4e	14*	15,18*	13	29	22	10
	4sp	14*	15*,18	13	29	22	10
C4P2ZH	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4	14	15,18	13	29	22	10
C8RYBB	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
CPPEB2	Kit(s) Reported: PowerPlex®Y						
	1	\	\	\	\	\	\
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4	14	15,18	13	29	22	10

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391
DCYUMX	Kit(s) Reported: Yfiler®						
	1	-	-	-	-	-	-
	2	15	-	14	31	21	10
	3	15	-	14	31	21	10
	4e	-	-	-	-	-	-
	4sp	14	15,18	13	29	22	10
DFJWD4	Kit(s) Reported: PowerPlex®Y						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4sp	14	15,18	13	29	22	10
DLN2G3	Kit(s) Reported: Yfiler®						
	1	-	-	-	-	-	-
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
DW7ARV	Kit(s) Reported: Yfiler®						
	1	NA	NA	NA	NA	NA	NA
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
DXWG8L	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4sp	14	15,18	13	29	22	10
E6VDEP	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
E8LJVF	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
EDRK63	Kit(s) Reported: PowerPlex®Y						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e			13			10
	4sp	14	15,18	13	29	22	10

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391
EYB3JA	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
FQPNVU	Kit(s) Reported: Yfiler®						
	1	-	-	-	-	-	-
	2	15	14,15.2*	14	31	21	10
	3	15	14,15.2*	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
FR2JHL	Kit(s) Reported: Yfiler®						
	1	-	-	-	-	-	-
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	NR	NR	NR	NR	NR	NR
	4sp	14	15,18	13	29	22	10
FTFVCK	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
FVNNPZ	Kit(s) Reported: PowerPlex®Y						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4sp	14	15,18	13	29	22	10
GEU3F4	Kit(s) Reported: PowerPlex®Y						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
GRG4JB	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4sp	14	15,18	13	29	22	10
HC6TQH	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
HPRX3K	Kit(s) Reported: PowerPlex®Y						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4	14	15,18	13	29	22	10

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391
JCX2ER	Kit(s) Reported: PowerPlex®Y						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4sp	14	15,18	13	29	22	10
JRQW8	Kit(s) Reported:						
	1	-	-	-	-	-	-
	2	15	14/15.2*	14	31	21	10
	3	15	14/15.2*	14	31	21	10
	4e	14	15/18	13	29	22	10
	4sp	14	15/18	13	29	22	10
K3NW22	Kit(s) Reported: PowerPlex®Y						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4sp	14	15,18	13	29	22	10
KGAWKU	Kit(s) Reported: PowerPlex®Y						
	1	NR	NR	NR	NR	NR	NR
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
L2P69R	Kit(s) Reported: PowerPlex®Y						
	1	ND	ND	ND	ND	ND	ND
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4	14	15,18	13	29	22	10
L3KNAT	Kit(s) Reported: Yfiler®						
	1	NR	NR	NR	NR	NR	NR
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
L9A9D9	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
MC6ECC	Kit(s) Reported: Yfiler®						
	1	/	/	/	/	/	/
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391
NFL479	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
NHN69Q	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
NKWCD6	Kit(s) Reported: PowerPlex®Y						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
NNCTKN	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4sp	14	15,18	13	29	22	10
	P6ZGEJ	Kit(s) Reported: Yfiler®					
2		15	14,15.2	14	31	21	10
3		15	14,15.2	14	31	21	10
4e		14	15,18	13	29	22	10
4sp		14	15,18	13	29	22	10
PENDDY	Kit(s) Reported: Yfiler®						
	2	15	14,15.3	14	31	21	10
	3	15	14,15.3	14	31	21	10
	4sp	14	15,18	13	29	22	10
	PJHA3P	Kit(s) Reported: Yfiler®					
2		15	14,15.2	14	31	21	10
3		15	14,15.2	14	31	21	10
4e		14	15,18	13	29	22	10
4sp		14	15,18	13	29	22	10
PQZF2H	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
PRAN7V	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391
QA7JUJ	Kit(s) Reported: PowerPlex®Y Yfiler®						
	1	-	-	-	-	-	-
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4	14	15,18	13	29	22	10
QL2N7Q	Kit(s) Reported: PowerPlex®Y						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4sp	14	15,18	13	29	22	10
QN7HDN	Kit(s) Reported: PowerPlex®Y						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
QPLFF8	Kit(s) Reported: Yfiler®						
	1	-	-	-	-	-	-
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
R33NUJ	Kit(s) Reported: Yfiler®						
	1	-	-	-	-	-	-
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
TZYBRC	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
UYUG6N	Kit(s) Reported: PowerPlex®Y						
	1	/	/	/	/	/	/
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
	4sp	14	15,18	13	29	22	10
VDXXB	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4sp	14	15,18	13	29	22	10

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391
W8KJK6	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4sp	14	15,18	13	29	22	10
WFTDEX	Kit(s) Reported: Yfiler®						
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
X7PDMB	Kit(s) Reported: Yfiler®						
	2	15	14,INC*	14	31	21	10
	3	15	14,INC*	14	31	21	10
	4e	14	15,18	13	29	22	10
Y4C7TG	Kit(s) Reported: PowerPlex®Y In-house						
	1	ND	ND	ND	ND	ND	ND
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
ZQKYB7	Kit(s) Reported: Yfiler®						
	1	-	-	-	-	-	-
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10
ZQKYB7	Kit(s) Reported: Yfiler®						
	1	-	-	-	-	-	-
	2	15	14,15.2	14	31	21	10
	3	15	14,15.2	14	31	21	10
	4e	14	15,18	13	29	22	10

\* See Additional Comments (Table 8)

# YSTR Results - Part II

TABLE 5

WebCode	Item	DYS392	DYS393	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	YGATAH4
26J6ZV	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	13	22	11
	4sp	11	13	15	9	11	20	15	13	22	11
2VA4UF	2	11	14	14	11	11					
	3	11	14	14	11	11					
	4e	11	13	15	9	11					
	4sp	11	13	15	9	11					
2VW229	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	<14	22	11
	4sp	11	13	15	9	11	20	15	<14	22	11
32UD9P	1	NR	NR	NR	NR	NR					
	2	11	14	14	11	11					
	3	11	14	14	11	11					
	4e	11	13	15	9	11					
	4sp	11	13	15	9	11					
3FBDYN	2	11	13	14	11	11	20	15	18	23	11
	3	11	13	14	11	11	20	15	18	23	11
	4sp	11	13	15	9	11	20	15	new allele	22	11
3W49NE	1	-	-	-	-	-					
	2	11	14	14	11	11					
	3	11	14	14	11	11					
	4e	11	13	15	9	11					
	4sp	11	13	15	9	11					
4URN4Q	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	<14	22	11
	4sp	11	13	15	9	11	20	15	<14	22	11
7GG6UF	2	11	14	14	11	11					
	3	11	14	14	11	11					
	4e	11	13	15	9	11					
	4sp	11	13	15	9	11					
7U47XM	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	<14	22	11
	4sp	11	13	15	9	11	20	15	<14	22	11

TABLE 5

WebCode	Item	DYS392	DYS393	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	YGATAH4
7ULTXP	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	<14	22	11
	4sp	11	13	15	9	11	20	15	<14	22	11
83UCJD	2	11	14	14	11	11					
	3	11	14	14	11	11					
	4e	11	13	15	9	11					
	4sp	11	13	15	9	11					
B27MWH	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	<14	22	11
BLU46H	2	11	14	14	11	11					
	3	11	14	14	11	11					
	4e	11	13	15	9	11					
	4sp	11	13	15	9	11					
BVXEB8	2	11	14	14	11	11	20	15	18	23	11
	3	11*	14*	14*	11*	11*	20	15*	18*	23*	11*
	4e	11	13	15	9	11*	20	15	<14	22	11
	4sp	11	13	15	9	11	20	15	<14	22	11
C4P2ZH	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4	11	13	15	9	11	20	15	<14	22	11
C8RYBB	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	13	22	11
	4sp	11	13	15	9	11	20	15	13	22	11
CPPEB2	1	\	\	\	\	\					
	2	11	14	14	11	11					
	3	11	14	14	11	11					
	4	11	13	15	9	11					
DCYUMX	1	-	-	-	-	-	-	-	-	-	-
	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	-	-	-	-	-	-	-	-	-	-
	4sp	11	13	15	9	11	20	15	20	22	11
DFJWD4	2	11	14	14	11	11					
	3	11	14	14	11	11					
	4sp	11	13	15	9	11					

TABLE 5

WebCode	Item	DYS392	DYS393	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	YGATAH4
DLN2G3	1	-	-	-	-	-	-	-	-	-	-
	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	<14	22	11
	4sp	11	13	15	9	11	20	15	<14	22	11
DW7ARV	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	<14	22	11
	4sp	11	13	15	9	11	20	15	<14	22	11
DXWG8L	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4sp	11	13	15	9	11	20	15	<14	22	11
E6VDEP	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	<14	22	11
	4sp	11	13	15	9	11	20	15	<14	22	11
E8LJVF	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	<14	22	11
	4sp	11	13	15	9	11	20	15	<14	22	11
EDRK63	2	11	14	14	11	11					
	3	11	14	14	11	11					
	4e				9						
	4sp	11	13	15	9	11					
EYB3JA	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	<14	22	11
	4sp	11	13	15	9	11	20	15	<14	22	11
FQPNVU	1	-	-	-	-	-	-	-	-	-	-
	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	13*	22	11
	4sp	11	13	15	9	11	20	15	13*	22	11
FR2JHL	1	-	-	-	-	-	-	-	-	-	-
	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	NR	13	15	NR	NR	NR	NR	NR	NR	NR
	4sp	11	13	15	9	11	20	15	<14	22	11

TABLE 5

WebCode	Item	DYS392	DYS393	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	YGATAH4
FTFVCK	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	<14	22	11
	4sp	11	13	15	9	11	20	15	<14	22	11
FVNNPZ	2	11	14	14	11	11					
	3	11	14	14	11	11					
	4sp	11	13	15	9	11					
GEU3F4	2	11	14	14	11	11					
	3	11	14	14	11	11					
	4e	11	13	15	9	11					
	4sp	11	13	15	9	11					
GRG4JB	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4sp	11	13	15	9	11	20	15	<14	22	11
HC6TQH	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	<14	22	11
	4sp	11	13	15	9	11	20	15	<14	22	11
HPRX3K	2	11	14	14	11	11					
	3	11	14	14	11	11					
	4	11	13	15	9	11					
JCX2ER	2	11	14	14	11	11					
	3	11	14	14	11	11					
	4sp	11	13	15	9	11					
JRQTW8	1	-	-	-	-	-	-	-	-	-	-
	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	13*	22	11
	4sp	11	13	15	9	11	20	15	13*	22	11
K3NW22	2	11	14	14	11	11					
	3	11	14	14	11	11					
	4sp	11	13	15	9	11					
KGAWKU	1	NR	NR	NR	NR	NR					
	2	11	14	14	11	11					
	3	11	14	14	11	11					
	4e	11	13	15	9	11					
	4sp	11	13	15	9	11					
L2P69R	1	ND	ND	ND	ND	ND					
	2	11	14	14	11	11					
	3	11	14	14	11	11					
	4	11	13	15	9	11					

TABLE 5

WebCode	Item	DYS392	DYS393	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	YGATAH4
L3KNAT	1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	<14	22	11
	4sp	11	13	15	9	11	20	15	<14	22	11
L9A9D9	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	13	22	11
	4sp	11	13	15	9	11	20	15	13	22	11
MC6ECC	1	/	/	/	/	/	/	/	/	/	/
	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	13	22	11
	4sp	11	13	15	9	11	20	15	13	22	11
NFL479	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9		20	15	13	22	11
	4sp	11	13	15	9	11	20	15	13	22	11
NHN69Q	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	<14	22	11
	4sp	11	13	15	9	11	20	15	<14	22	11
NKWCD6	2	11	14	14	11	11					
	3	11	14	14	11	11					
	4e	11	13	15	9	11					
	4sp	11	13	15	9	11					
NNCTKN	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4sp	11	13	15	9	11	20	15	13	22	11
P6ZGEJ	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	<14	22	11
	4sp	11	13	15	9	11	20	15	<14	22	11
PENDDY	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4sp	11	13	15	9	11	20	15	13	22	11
PJHA3P	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	<14	22	11
	4sp	11	13	15	9	11	20	15	<14	22	11

TABLE 5

WebCode	Item	DYS392	DYS393	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	YGATAH4
PQZF2H	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	13	22	11
	4sp	11	13	15	9	11	20	15	13	22	11
PRAN7V	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	<14	22	11
	4sp	11	13	15	9	11	20	15	<14	22	11
QA7JUJ	1	-	-	-	-	-	-	-	-	-	-
	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4	11	13	15	9	11	20	15	13	22	11
QL2N7Q	2	11	14	14	11	11					
	3	11	14	14	11	11					
	4sp	11	13	15	9	11					
QN7HDN	2	11	14	14	11	11					
	3	11	14	14	11	11					
	4e	11	13	15	9	11					
	4sp	11	13	15	9	11					
QPLFF8	1	-	-	-	-	-	-	-	-	-	-
	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	13	22	11
	4sp	11	13	15	9	11	20	15	13	22	11
R33NUJ	1	-	-	-	-	-	-	-	-	-	-
	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	13	22	11
	4sp	11	13	15	9	11	20	15	13	22	11
TZYBRC	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	NR*	20	15	18	23	11
	4e	11	13	15	9	11	20	15	<14	22	11
	4sp	11	13	15	9	11	20	15	<14	22	11
UYUG6N	1	/	/	/	/	/	/	/	/	/	/
	2	11	14	14	11	11	/	/	/	/	/
	3	11	14	14	11	11	/	/	/	/	/
	4e	11	13	15	9	11	/	/	/	/	/
	4sp	11	13	15	9	11	/	/	/	/	/
VDXXB	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4sp	11	13	15	9	11	20	15	13	22	11

TABLE 5

WebCode	Item	DYS392	DYS393	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	YGATAH4
W8KJK6	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4sp	11	13	15	9	11	20	15	<14	22	11
WFTDEX	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	13	22	11
	4sp	11	13	15	9	11	20	15	13	22	11
X7PDMB	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	<14*	22	11
	4sp	11	13	15	9	11	20	15	<14*	22	11
Y4C7TG	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2	11	14	14	11	11	20	ND	ND	ND	11
	3	11	14	14	11	11	ND	ND	ND	ND	ND
	4e	11	13	15	9	11	ND	ND	ND	ND	ND
	4sp	11	13	15	9	11	ND	ND	ND	ND	ND
ZQKYB7	1	-	-	-	-	-	-	-	-	-	-
	2	11	14	14	11	11	20	15	18	23	11
	3	11	14	14	11	11	20	15	18	23	11
	4e	11	13	15	9	11	20	15	13	22	11
	4sp	11	13	15	9	11	20	15	13	22	11

\* See Additional Comments (Table 8)

# Additional DNA Results

TABLE 6

Locus	WebCode	Item 1	Item 2	Item 3	Item 4e	Item 4sp
DYS426	Y4C7TG	ND	11	ND	ND	ND
DYS447	Y4C7TG	ND	28	ND	ND	ND
DYS460	Y4C7TG	ND	10	ND	ND	ND
SE33	C8RYBB	26.2,27.2	24.2,27.2	24.2,26.2,27.2	21.2,26.2,27.2,28.2	21.2,28.2
	JRQTW8	26.2,27.2	24.2,27.2	24.2,26.2,27.2	21.2,26.2,27.2,28.2	21.2,28.2

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

# 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
26J6ZV	Yes	Yes	Yes	No	9JXWPN	Yes	Yes	Yes	No
2MJCYU	No Interpretations Reported, DNA Analyzed for Database purposes only.				9RKYNA	Yes	Yes	Yes	No
2VA4UF	Yes	Yes	Yes	No	9RQ9KG	Yes	Yes	Yes	No
2VW229	Yes	Yes	Yes	No	A2CG3J	No Interpretations Reported, DNA Analyzed for Database purposes only.			
32UD9P	Yes	Yes	Yes	No	A6UUM7	Yes	Yes	Yes	No
36AUF9	Yes	Yes	Yes	No	A8ELWN	Yes	Yes	Yes	No
3FBDYN	Yes	Yes	Yes	No	AR3CQT	Yes	Yes	Yes	No
3LZLPA	Yes	Yes	Yes	No	B27MWH	Yes	Yes	Yes	No
3W49NE	Yes	Yes	Yes	No	B3Y426	Yes	Yes	Yes	No
3XGDBX	Yes	Yes	Yes	No	B4C8M4	Yes	Yes	Yes	No
48HFT2	Yes	Yes	Yes	No	B72D3U	Yes	Yes	Yes	No
4BRKE9	Yes	Yes	Yes	No	BBZZN	Yes	Yes	Yes	No
4FRLP4	Yes	Yes	Yes	No	BCATVQ	Yes	Yes	Yes	No
4URN4Q	Yes	Yes	Yes	No	BDZYBG	Yes	Yes	Yes	No
4VLD9J	Yes	Yes	Yes	No	BLU46H	Yes	Yes	Yes	No
66NQ7Y	Yes	Yes	Yes	No	BR3ZXB	Yes	Yes	Yes	No
6HCXYT	Yes	Yes	Yes	No	BUMCP9	Yes	Yes	Yes	No
7GG6UF	Yes	Yes	Yes	No	BVXEB8	Yes	Yes	Yes	No
7U47XM	Yes	Yes	Yes	No	BZCWTN	Yes	Yes	Yes	No
7ULTXP	Yes	Yes	Yes	No	C2JQPZ	Yes	Yes	Yes	No
7UQ9BQ	Yes	Yes	Yes	No	C3EAR2	Yes	Yes	Yes	No
83UCJD	Yes	Yes	Yes	No	C4P2ZH	Yes	Yes	Yes	No
88KG3N	Yes	Yes	Yes	No	C8RYBB	Yes	Yes	Yes	No
8AVWYB	Yes	Yes	Yes	No	CFL66C	Yes	Yes	Yes	No
8TLCWC	Yes	Yes	Yes	No	CGGM7D	Yes	Yes	Yes	No
8YTXPF	Yes	Yes	Yes	No	CHTHT6	Yes	Yes	Yes	No
94MXY6	Yes	Yes	Yes	No	CLRVDA	Yes	Yes	Yes	No

TABLE 7

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
CPPEB2	Yes	Yes	Yes	No	GRG4JB	Yes	Yes	Yes	No
CQ6J7T	Yes	Yes	Yes	No	GU6CAY	Yes	Yes	Yes	No
D6J2JE	Yes	Yes	Yes	No	GWZX3Q	Yes	Yes	Yes	No
D7T8YN	Yes	Yes	Yes	No	H96HW3	Yes	Yes	Yes	No
DBKJRY	Yes	Yes	Yes	No	H9J49Q	Yes	Yes	Yes	No
DCYUMX	Yes	Yes	Yes	No	HC6TQH	Yes	Yes	Yes	No
DFJWD4	Yes	Yes	Yes	No	HJ7ZEX	Yes	Yes	Yes	No
DLN2G3	Yes	Yes	Yes	No	HNDQG4	Yes	Yes	Yes	No
DW7ARV	Yes	Yes	Yes	No	HPRX3K	Yes	Yes	Yes	No
DXWG8L	Yes	Yes	Yes	No	HXYRWD	No Interpretations Reported, DNA Analyzed for Database purposes only.			
E3PZPB	Yes	Yes	Yes	No	J87PKG	Yes	Yes	Yes	No
E6VDEP	Yes	Yes	Yes	No	JAWW28	Yes	Yes	Yes	No
E8LJVF	Yes	Yes	Yes	No	JCX2ER	Yes	Yes	Yes	No
EDRK63	Yes	Yes	Yes	No	JH6RGX	Yes	Yes	Yes	No
EGRWZ3	Yes	Yes	Yes	No	JQ2H7E	Yes	Yes	Yes	No
EW36UY	Yes	Yes	Yes	No	JRQTW8	Yes	Yes	Yes	No
EXXNVZ	Yes	Yes	Yes	No	JRV6K4	Yes	Yes	Yes	No
EYB3JA	Yes	Yes	Yes	No	JYNK62	Yes	Yes	Yes	No
F98KD9	Yes	Yes	Yes	No	K3NW22	Yes	Yes	Yes	No
FQPNVU	Yes	Yes	Yes	No	K9X69X	Yes	Yes	Yes	No
FR2JHL	Yes	Yes	Yes	No	KGAWKU	Yes	Yes	Yes	No
FTFVCK	Yes	Yes	Yes	No	KQCN3F	Yes	Yes	Yes	No
FVNNPZ	Yes	Yes	Yes	No	L2P69R	Yes	Yes	Yes	No
FXP4JG	Yes	Yes	Yes	No	L3KNAT	Yes	Yes	Yes	No
G3J6HA	Yes	Yes	Yes	No	L4FCNH	Yes	Yes	Yes	No
GDHXV8	Yes	Yes	Yes	No	L8V2UD	Yes	Yes	Yes	No
GDMBGH	Yes	Yes	Yes	No	L9A9D9	Yes	Yes	Yes	No
GEDGX9	Yes	Yes	Yes	No	LK4P3A	Yes	Yes	Yes	No
GEU3F4	Yes	Yes	Yes	No	LLH74U	Yes	Yes	Yes	No
GFR39V	Yes	Yes	Yes	No					

TABLE 7

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
LPZ4XC	Yes	Yes	Yes	No	QA7JUJ	Yes	Yes	Yes	No
LTE24E	Yes	Yes	Yes	No	QL2N7Q	Yes	Yes	Yes	No
M6PVRC	Yes	Yes	Yes	No	QN7HDN	Yes	Yes	Yes	No
MC6ECC	Yes	Yes	Yes	No	QPLFF8	Yes	Yes	Yes	No
MJ6WQN	Yes	Yes	Yes	No	R33NUJ	Yes	Yes	Yes	No
MLU38E	Yes	Yes	Yes	No	R727RC	Yes	Yes	Yes	No
MPW49W	Yes	Yes	Yes	No	R8GGQ6	Yes	Yes	Yes	No
N22CBR	Yes	Yes	Yes	No	R98M8V	Yes	Yes	Yes	No
N2KPRW	Yes	Yes	Yes	No	RLFAFR	Yes	Yes	Yes	No
NFL479	Yes	Yes	Yes	No	T3YM8P	Yes	Yes	Yes	No
NH77XE	Yes	Yes	Yes	No	TDMCB6	Yes	Yes	Yes	No
NHN69Q	Yes	Yes	Yes	No	TFMPPG	Yes	Yes	Yes	No
NKDFZJ	Yes	Yes	Yes	No	TLTE9A	Yes	Yes	Yes	No
NKWCD6	Yes	Yes	Yes	No	TZYBRC	Yes	Yes	Yes	No
NLTXGP	Yes	Yes	Yes	No	U9KXZK	Yes	Yes	Yes	No
NNCTKN	Yes	Yes	Yes	No	UGF7TJ	Yes	Yes	Yes	No
NPQ93V	Yes	Yes	Yes	No	ULRGHR	Yes	Yes	Yes	No
NW9F2N	Yes	Yes	Yes	No	UQXNNG	Yes	Yes	Yes	No
NXGWR7	Yes	Yes	Yes	No	URH4K8	Yes	Yes	Yes	No
P3UU6K	Yes	Yes	Yes	No	UYUG6N	Yes	Yes	Yes	No
P6ZGEJ	Yes	Yes	Yes	No	V87QE3	Yes	Yes	Yes	No
P7QMVA	Yes	Yes	Yes	No	VDXXB	Yes	Yes	Yes	No
PEJVFZ	Yes	Yes	Yes	No	VEM9N4	Yes	Yes,e/ No,sp	Yes	No
PENDDY	Yes	Yes	Yes	No	VKB7XD	Yes	Yes	Yes	No
PJHA3P	Yes	Yes	Yes	No	VKUVF8	Yes	Yes	Yes	No
PQZF2H	Yes	Yes	Yes	No	VL7UD2	Yes	Yes	Yes	No
PRAN7V	Yes	Yes	Yes	No	VP7X7A	Yes	Yes	Yes	No
PTQLH9	Yes	Yes	Yes	No	W79XU4	Yes	Yes	Yes	No
PVCQRQ	Yes	Yes	Yes	No	W7PYW6	Yes	Yes	Yes	No
PXWH29	Yes	Yes	Yes	No					

TABLE 7

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
W8KJK6	Yes	Yes	Yes	No					
WFTDEX	Yes	Yes	Yes	No					
WJFNWB	Yes	Yes	Yes	No					
WKNZCR	Yes	Yes	Yes	No					
WTFHNF	Yes	Yes	Yes	No					
WV6UE9	Yes	Yes	Yes	No					
X7PDMB	Yes	Yes	Yes	No					
X8EPD4	Yes	Yes	Yes	No					
XAK6TM	Yes	Yes	Yes	No					
XFBHUB	Yes	Yes	Yes	No					
XJTYPZ	Yes	Yes	Yes	No					
Y4C7TG	Yes	Yes	Yes	No					
YA3HU6	Yes	Yes	Yes	No					
YN2KAR	Yes	Yes	Yes	No					
YYGEM6	Yes	Yes	Yes	No					
ZKDCJ3	Yes	Yes	Yes	No					
ZQKYB7	Yes	Yes	Yes	No					
ZRV7PD	Yes	Yes	Yes	No					

Response Summary			Participants reporting DNA results: 190			
<i>Based on results obtained from DNA analysis, could the Victim (Item 1) and/or the Suspect (Item 2) be a contributor to the questioned stains (Items 3 &amp; 4)?</i>						
<b>Responses</b>		Victim (Item 1)		Suspect (Item 2)		
		<u>Item 3</u>	<u>Item 4</u>	<u>Item 3</u>	<u>Item 4</u>	
	Yes	<b>187</b>	<b>187</b>	<b>187</b>	<b>0</b>	
	No	<b>0</b>	<b>0</b>	<b>0</b>	<b>187</b>	
	Inc	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

Participants not reporting Interpretation results: 3

# Additional Comments

TABLE 8

WebCode	Additional Comments
2MJCYU	Our database extraction procedures are validated for the extraction of blood or buccal cell swabs only. Therefore, semen containing sample, Item 4, was not processed for this test. Our database analysis parameters use a "general 20% filter." Therefore, it is not unexpected that some alleles from a mixed sample would not be labeled.
2VA4UF	In order to determine the presence of the Victim in Item 4, I have assumed the presence of the contributor from the sperm fraction of Item 4 is also present in the epithelial fraction. The 15.2 allele detected at DYS385 for Items 2 and 3 is designed as a rare allele in our laboratory. This allele designation has been verified by repeat analysis.
2VW229	* = other peaks/artifacts present that do not meet reporting standards. This locus not used in statistical calculations.
3FBDYN	The suspect and the victim do not exclude themselves as the origin from mixture of blood founded in item 3 (blood stain from the suspect's shirt). The suspect was excluded as origin from mixture of semen and blood founded in item 4 (blood and semen mixture stain from bed sheet at the scene). The victim and a unknown contributor is not excluded as the origin from mixture of semen and blood founded in the item 4 (blood and the semen mixture stain from bed sheet at the scene). [sic]
3W49NE	Mixtures found in item 3 and epithelial fraction of item 4 could each be resolved into two components.
3XGDBX	*9.3 Allele @ TH01 in Item 3 not resolved by software, allele not required for the interpretation of the overall sample.
66NQ7Y	Item 3 (blood stain from the suspect's shirt) presents a DNA profile from more than one person. Item 1 (blood from victim) and item 2 (blood from suspect) can not be excluded to be the contributors of the DNA profile detected in item 3. Item 4 (blood and semen mixture stain from the bed sheet) presents a DNA profile from more than one person. Item 1 (blood from the victim) and unknown person can not be excluded to be contributors of the DNA profile from item 4. Item 2 (blood from the suspect) is excluded to be one of the contributors of the DNA profile detected in item 4. Statistical statement can not be included due to unknown person sample is not provided.
8YTXPF	A potential 9.3 allele is presenting as a shoulder on the 10 allele at TH01 and is not being called by the genotyping software used. In the normal course of casework, upon comparison of this profile to a known reference standard with a 9.3 allele, the shoulder observed in Item 4 would be noted and considered in the context of the overall comparison, however no additional measures to genotype the 9.3 allele would be taken. Therefore, no additional steps have been taken regarding this potential allelic peak for the purposes of this proficiency test (Exhibit 4e).
9RQ9KG	Regarding Item 4 - Epithelial Cell Fraction. A potential 9.3 allele is presenting as a shoulder on the 10 allele at TH01 and is not being called by the genotyping software used. In the normal course of casework, upon comparison of this profile to a known reference standard with a 9.3 allele, the shoulder observed in Item 4 would be noted and considered in the context of the overall comparison, however no additional measures to genotype the 9.3 allele would be taken. Therefore, no additional steps have been taken regarding this potential allelic peak for the purposes of this proficiency test.
BCATVQ	Note: For item 4E at TH01, peak at "9.3" position (in the minor component) was unresolved from the "10" allele by the genetic analysis software using laboratory procedures.
BVXEB8	On pages 2 and 3, there are alleles with an asterick[sic], *, next to them. These alleles were detected below our stochastic threshold. Our stochastic threshold for autosomal STR's is 150 rfus and our stochastic threshold for Y-STR's is 400 rfus.
C8RYBB	1. The victim and the suspect can't be exclude as a contributors to the mixture present at the Item 3. 2. The suspect can be exclude as a contributor to the Item 4 (sperm fraction and epithelial fraction). There are fourteen (14) exclusions for autosomic STR'S and ten (10) exclusions for Y STR'S. 3. An unknown male can't be exclude as a contributor to the sperm fraction of Item 4. 4. The victim and an unknown male can't be exclude as a contributor to the epithelial fraction of Item 4. [sic]
CLRVDA	Regarding Item 4 - Epithelial Cell Fraction. A potential 9.3 allele is presenting as a shoulder on the 10

TABLE 8

WebCode	Additional Comments
	allele at TH01 and is not being called by the genotyping software used. In the normal course of casework, upon comparison of this profile to a known reference standard with a 9.3 allele, the shoulder observed in Item 4 would be noted and considered in the context of the overall comparison, however no additional measures to genotype the 9.3 allele would be taken. Therefore, no additional steps have been taken regarding this potential allelic peak for the purposes of this proficiency test.
D7T8YN	* Other peaks artifacts present which do not meet reporting standards. This locus not used in statistics.
DW7ARV	The DNA detected in item 3 (TA3437.03A) appears to be a mixture of DNA from at least two individuals. The victim and the suspect cannot be excluded as the source of the DNA detected in this sample. The DNA detected in the epithelial fraction of Item 4 (TA3437.04A/EC) appears to be a mixture of DNA from at least two individuals, with a primary female donor. The victim cannot be excluded as the source of some of the DNA detected in this sample. The suspect is excluded as a contributor to the DNA mixture detected in this sample. The DNA detected in the sperm fraction of Item 4 (TA3437.04A/SP) appears to originate from one male individual. The victim and the suspect are excluded as the source of the DNA detected in this sample.
DXWG8L	[From Table 4 - YSTR Results - Part I: Items 1 and 4e "Not Tested"]
FQPNVU	Multiplex PCR amplification were performed on Organic @ Phenol/Chloroform (Item 1, Item 2) and Chelex (Item 3 and Item 4) extracted DNA samples using AmpF/STR Identifiler and AmpF/STR Yfiler amplification kits. Off Ladder (OL) alleles were detected on loci DYS385 of Item 2 and Item 3, and identified as allele 15.2 after compared and calculated the molecular size with respective Allelic Ladder. Off Ladder (OL) alleles were detected on loci DYS458 of Item 4e and Item 4sp, and identified as allele 13 after compared and calculated the molecular size with respective Allelic Ladder.
FVNNPZ	Item #4 difficult to resolve the 9.3 + 10 alleles @ TH01 in the epithelial-rich fraction.
HC6TQH	Item 4, epithelial fraction (4e), some loci did not have distinct major/minor alleles, minor alleles noted with brackets when resolvable. YSTR analysis was not performed on female victim standard, Item 1.
HXYRWD	As this was analyzed for single source database samples, Item 4, a likely mixed DNA stain, was not analyzed for this test.
JRQTW8	1. The victim and suspect are not excluded as contributors of blood on item 3. 2. The suspect is excluded as contributor of semen on item 4. 3. The victim and one unknown man are not excluded as contributors of cells on item 4. 4. The items 2 and 3 has one OL allele in the DYS385a/b system. We assigned[sic] the 15.2 allele based in size. 5. The item 4 has one OL allele in the DYS458 system. We assigned[sic] the 13 allele based in size.
KGAWKU	NR = No Result. DNA from item 1 did not amplify in the PowerPlex Y system.
L3KNAT	NR = No Results
N22CBR	Note 1: Analysis of Item 3 yielded a mixed DNA profile which appears to originate from two contributors. Both the Victim (Item 1) & the Suspect (Item 2) cannot be excluded as possible contributors to this mixed DNA profile. Note 2: Analysis of the epithelial fraction of Item 4 yielded a mixed DNA profile which appears to originate from two contributors. This could be explained by incomplete separation[sic] or spillover of the sperm fraction alleles into the epithelial fraction. The Victim (Item 1) cannot be excluded as being a possible contributor to the epithelial fraction.
NKDFZJ	1. DNA analysis for blood stain obtain[sic] from Item 3 was mixture of the victim (Item 1) and the suspect (Item 2), where the minor profile cross matched with the STR profile for the suspect (Item 2) where as the major profile cross matched with the victim (Item 1). 2. DNA analysis for blood and semen stain obtain[sic] from Item 4 was mixture of the victim (Item 1) and unknown person.
NLTXGP	The mixture obtained from item 3 was interpreted without conditioning on the suspect as it was a clear 2:1 ratio with a major female component. The mixture obtained from item 4 (epi fraction) contained DNA from a male and likely female in approximately equal proportions. In order to determine the female component I conditioned on the male profile obtained from the sperm fraction.
PENDDY	It is inappropriate for CTS to characterize the nature of the Unknown Stain Deposits in a Proficiency Test or to suggest in any way that the Testing Laboratory should rely on claims made by another laboratory for the purposes of a Proficiency Test. [Participant included a report that could not be reproduced here.]

TABLE 8

WebCode	Additional Comments
PQZF2H	i. The Chelex extraction method was used to extract. ii. Real Time PCR using ABI Quantifiler Human DNA Quantification kit was used to quantify the DNA extracted and verify human origin. iii. AmpFISTR Identifier and AmpFISTR YFiler PCR kit supplied by Applied Biosystems. iv. Reagent blank, Positive Control and Negative Control were carried out along with the analysis.
PTQLH9	Results reported are that of a combination of Minifiler and Identifier.
PXWH29	Results reported are that of a combination of Minifiler and Identifier.
QPLFF8	Results reported are that of a combination of Minifiler and Identifier.
R33NUJ	1. Chelex extraction method was used to extract all the samples. 2. Quantitation was done using the AppliedBiosystem Quantifiler Human DNA Quantification Kit. 3. AmpFISTR Identifier PCR Kit was used for amplification. 4. Applied Biosystem Y-Filer kit was used for Y-STR amplification. 5. Capillary Electrophoresis was carried out using the Applied Biosystem 3130xl Genetic Analyzer. 6. Reagent Blank, Positive Control and Negative Control were carried out using the analysis.
R98M8V	Regarding Item 4 - Epithelial Cell Fraction. A potential 9.3 allele is presenting as a shoulder on the 10 allele at TH01 and is not being called by the genotyping software used. In the normal course of casework, upon comparison of this profile to a known reference standard with a 9.3 allele, the shoulder observed in Item 4 would be noted and considered in the context of the overall comparison; however, no additional measures to genotype the 9.3 allele would be taken. Therefore, no additional steps have been taken regarding this potential allelic peak for the purposes of this proficiency test.
TLTE9A	* Zygosity in question. ND - Not Detected.
TZYBRC	Item 1 Victim known matched Item 4E major component. Item 1 Victim known excluded from 4E minor component & 4S. Y-STR Item 3 had a peak <100 rfu at DYS439. NR for no results reported. [From Table 4 - YSTR Results - Part I, Table 5 - YSTR Results - Part II: Item 1 "Not Analyzed"]; [From Table 5 - YSTR Results - Part II: "NR = No Results"]
UGF7TJ	The minor alleles observed in the profiles from item 3 and the epithelial fraction of item 4 have not been bracketed due to the lack of room in the boxes to annotate the results.
URH4K8	Results reported are a combination of Minifiler and Identifier.
VDXXB	The alleles marked as results of the epithelial fraction (item 4) were obtained by total extraction of the DNA.
VKUVF8	Item 3 (blood stain from the suspect's shirt), presents a DNA profile from more than one person. Item 1 (blood from victim), and Item 2 (blood from suspect) can not be excluded to be the contributors of the DNA profile detected in item 3. Item 4 (blood and semen mixture stain from the bed sheet) presents a DNA profile from more than one person. Item 1 (blood from the victim) and unknown person can not be excluded to be the contributors of the DNA profile from item 4. Item 1 (blood from the victim) can not be excluded to be the major contributor of the DNA profile detected in item 4. Item 2 (blood from the suspect) is excluded to be one of the contributors of the DNA profile detected in item 4. Statistical statement can not be included due to unknown person sample is not provided.
VP7X7A	* = Peaks are present which do not meet laboratory reporting guidelines.
W8KJK6	Item 4sp: vWA:20 minor allele is in n+4 position. [From Tables 4 & 5 - YSTR Results - Parts I & II: Item 1 "not amplified at YSTR loci," Item 4e "no profile at any YSTR loci"]
WKNZCR	Regarding Item 4 - Epithelial Cell Fraction. A potential 9.3 allele is presenting as a shoulder on the 10 allele at TH01 and is not being called by the genotyping software used. In the normal course of casework, upon comparison of this profile to a known reference standard with a 9.3 allele, the shoulder observed in Item 4 would be noted and considered in the context of the overall comparison, however no additional measures to genotype the 9.3 allele would be taken. Therefore, no additional steps have been taken regarding this potential allelic peak for the purposes of this proficiency test.
X7PDMB	For the Y-STR results regarding Items 2 and 3 at DYS385, the "INC" allele was calculated as a 15.2 allele; however, per [Laboratory] policy, since a 15.2 allele has not been observed/reported in literature for DYS385 (per STR base website) it had to be reported as inconclusive or "INC." For the Y-STR results regarding Items 4-e and 4-sp at DYS458, the "<14" allele was calculated as a 13 allele; however, per [Laboratory] policy, although the 13 allele has been previously observed/reported in literature for DYS458

TABLE 8

WebCode	Additional Comments
	(per STR base website), it had to be reported as "<14." [From Table 2 - STR Results - Part II: "Amelogenin+, + = locus not used in statistical calculations, if applicable; ++ = peak/artifact present that does not meet reporting standards - locus not used in statistical calculations, if applicable"] [From Table 4 - YSTR Results - Part I, Table 5 - YSTR Results - Part II: "* Item 1 not tested for Y-STRs because female known DNA. INC = inconclusive allele - locus not used in statistical calculations, if applicable"]
X8EPD4	Results reported are a combination of Minifiler and Identifiler.
YA3HU6	Sample item 3 presents a genetic profile from more than one person. Neither sample item 1 (victim) or Sample item 2 (suspect) can be excluded from being the donors of the genetic profile on Sample item 3. Sample item 4 (epi) presents a genetic profile from more than one person. Item Sample 1 (victim) and an unknown male can not be excluded from being the donors of the genetic profile on Sample item 4 (epi). The suspect item Sample 2 is excluded from being one of the contributors on the genetic profile from sample item 4.
ZQKYB7	Analysis on Item 1, Item 2, Item 3 and Item 4 were carried out by Chelex method. Quantitation were using ABI Quantifiler Human on 7500 ABI prism. Detection and separation was on the ABI 3130xl Genetic Analyzer.

# **Appendix: Data Sheet**

Collaborative Testing Services ~ Forensic Testing Program

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## **Test No. 10-581: DNA-Mixture**

DATA MUST BE RECEIVED BY March 8, 2010 TO BE INCLUDED IN THE REPORT

Participant Code:

WebCode:

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

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

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

#### Scenario:

Police are investigating the brutal rape of a girl at a house party. Witnesses stated seeing the victim go into a bedroom with a couple of men. The victim gave a detailed description to investigators of one of the men. Later that evening, the suspect was apprehended at a local bar near the scene. Police have recovered two questioned stains: one from the suspect's shirt and one from a bed sheet at the scene. Screening has been done on the samples with the following results: Item 3 (suspect's shirt) is positive for blood only and Item 4 (bed sheet) is positive for both blood and semen. The screening lab is submitting these samples (Item 3 and 4) along with the known blood samples of the victim and the 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 suspect's shirt. (red/blue plaid material)

Item 4: Questioned blood and semen mixture stain from the bed sheet at the scene. (tan/green/brown striped material)

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

Page 1 of 5

**Part I: DNA ANALYSIS**

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

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

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

**STR Amplification Kit Used:**

Please check all that apply.

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

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

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

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

YSTR Results

TABLE 1a, continued

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

ITEM	D2S1338	D19S433	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

ITEM	DYS392	DYS393	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	Y GATA H4
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

TABLE 1b: Additional DNA Results

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

Please return all pages of this data sheet.

**Part II: DNA INTERPRETATION**

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

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

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

**Part IV: ADDITIONAL COMMENTS**

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

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**Return Instructions**  
Data Sheets can be mailed or faxed (please include a cover sheet) and must be received by **March 8, 2010** to be included in the report.

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

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

www.ctsforensics.com

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## RELEASE OF DATA TO ACCREDITATION BODIES

The following Accreditation Releases will apply only to:

Participant Code:

WebCode:

for Test No. **10-581: DNA-Mixture**

This release page must be completed and received by **March 8, 2010** to have this participant's submitted data included in the reports forwarded to the respective Accreditation Bodies.

### ASCLD/LAB RELEASE

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

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

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

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

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

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

### FQS-INTERNATIONAL RELEASE

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

FQS-International Certificate No. \_\_\_\_\_

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

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

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

### Accreditation Release

#### Return Instructions

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

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

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

Page 5 of 5